

SEQUENCE LISTING

<110> Craig Rosen,
Steve Ruben

<120> Human Breast and Ovarian Cancer Associated Gene Sequences and
Polypeptides

<130> PA103PCT

<140> Unassigned

<141> 2000-03-08

<150> 60/124,270

<151> 1999-03-12

<160> 846

<170> PatentIn Ver. 2.0

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<211> 1913

<212> DNA

<213> Homo sapiens

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<222> (6)

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<223> n equals a,t,g, or c

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gacaagagaa aatgtccttg tggagaccct aaaccatgag atgtatgagg ctaaatatgt 240
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<211> 1425

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<213> Homo sapiens

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<221> misc feature

<222> (842)

<223> n equals a,t,g, or c

<400> 2

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<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

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ctttcgatgg ggatgtttct gtaacactgt gttattctgg atcttcaaat aatagcaaa 180
ccaattactc taaatgtaaa atttttctat tcccaagggt cacttttggt tggtaggttt 240
tcacgntttt aaatactgtt taatggaaga aaaatacgtg gccaggcgtg gtggctcaca 300
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<211> 514

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

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acggggcacg gcgagaggtc ctgccagata agctgtaggg gctcaggcca ccctccctgc 180
cacgtggaga cgcagagggc gaacccaaac tggggccacc tctgtaccct cacttcaggg 240

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gggttggttg agttgcctag aaccctgcc agggctgggg gtgagaaggg gagtcattac 420
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<210> 5

<211> 2035

<212> DNA

<213> Homo sapiens

<400> 5

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<212> DNA

<213> Homo sapiens

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<221> misc feature

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ccagaatgga ctggagtga ggcgtgtcta gagtgtgggc tggctgttgt gctggaaagc 1140
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<210> 7

<211> 624

<212> DNA

<213> Homo sapiens

<400> 7

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tctatagcat ttgatgttac aactctaagc gtagttcaaa gacatttaaa ttgacaagtt 180
accagttaaa gaatttagaa tatattagat cccatctagt attatatatt ttttctagtt 240
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aaataaagca tattatttca tttta 624

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<210> 8
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c 301

<210> 9
<211> 686
<212> DNA
<213> Homo sapiens

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cagctgttca tccatttcgt gttttttcct gtcaaacatt aatccagcaa atatatgagg 180
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catactttaa aagatcaaaa aaaaaa 686

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<211> 397
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

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<210> 11
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<213> Homo sapiens

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<220>
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<220>
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<220>
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<222> (37)
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<220>
<221> misc feature
<222> (510)
<223> n equals a,t,g, or c

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<220>
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<222> (562)
<223> n equals a,t,g, or c

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agaaaggggg atgaaaaaaa ant 563

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<210> 12
 <211> 443
 <212> DNA
 <213> Homo sapiens

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 gtcacatcgcc acgtggactc cggaaagtcc accaccacgg gccacatcat ctacaaatgc 180
 ggagggtattg acaaaaggac cattgagaag ttcgagaagg aggcggctga gatggggaag 240
 ggatccttca agtatgcctg ggtgctggac aagctgaagg cggasgtgag cgcgrrcatc 300
 accatcgaca tctccctctg gaagtctgag accaccaagt actacatcac catcatcgat 360
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 gcagtgtga tcgtggcggc ggg 443

<210> 13
 <211> 2438
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (117)
 <223> n equals a,t,g, or c

<220>
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 <222> (681)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (713)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2413)
 <223> n equals a,t,g, or c

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gaggcctggc caatgcggcc nactttcctg agctgtcgct gcctccatgg canagccarg 720
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<210> 14

<211> 2347

<212> DNA

<213> Homo sapiens

<400> 14

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gaaaaaa 2347

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<210> 15

<211> 2006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<400> 15

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gccagcatg taaacaagag aaagacgata aggaagagaa gaaagacgca gctgagcaag 180
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caaagccttc tactaccca acttcacctc ggcctcaagc acaacctagc ccatctatgg 300
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tgtatccagt cccagtgagc ccaggcgtgc aacctttata cccaatacct atgacgcccc 420
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ttatttataa atcaagtttg atgaggtgat cactgtctac agtggttcaa cttttaagtt 1920
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ataaaaaaag ttttaaaaac tgaaaaa 2006

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<210> 16

<211> 986

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (932)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (985)

<223> n equals a,t,g, or c

<400> 16

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caaaaccagc tgccacgacg cgcacgtgac agggactggg agtgatgcct cccaaagcag 180
gccagaccat caccgttgca acccacgcca agcaaggggc ctcggtggcc agtgggtctg 240
gaactgtcca tacttcagcg gtgtccttac ccagtatgaa tgctgctgtg tccaagactg 300
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gcggcaggtc cctgtcagca ccacggttgt gtccacgtcc caggctggga agttgcctac 420
acggatcaca gttcccctct ctgtgatcag ccagccaatg aagggaaga gcgtggctac 480
agccccatc atcaaaggca accttgagc caacctcagt ggggtgggccc gcaacatcat 540
cctcacaact atgccagcag gactaagct cattgctggc aataagcctg ttagtttctt 600
cactgctcag canttgacg agcttcagca gcaaggtcag gccacacagg tgcgcatcca 660
gactgtccct gcatcccatc tccaacaggg aacagcttct ggctcctcca aagcagtctc 720
cactgttggt gtgactacag ctccgtctcc taaacaggca cctgagcaac aatgattatg 780
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<210> 17

<211> 1589

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (555)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1033)

<223> n equals a,t,g, or c

<400> 17

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tgccccccac cccagcctaa gatgaagagg atcggaggct tgtcagagct gggaggggtt 120
ttcgaagctc agcccccccc cctcattttg gatataggtc agtgaaggcc caggagagg 180
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ccatgattcg cccaaagcca gacagcaacg gggaggccra gtgcaggctg gcaccgcctt 240
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gggaaatggc ttgaagccaa gtcagctttg ccttcacgc tgtctccaga cccccacccc 360
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agaaagaaaa ataaaaaaaa aaaaaaaaaa 1589

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<210> 18

<211> 846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 18

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gcgcccctgg tgccactgca ccagaagcag agccgcatca ccccatcca gaagccgcgg 120
ggcstcgacc ctgtggagat cctgcaggag cgcgagtaca ggctgcaggc tcgcatcgca 180
caccgaattc aggaacttga aaaccttccc ggggtccctgg ccggggattt gcgaaccaa 240
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gtggtggtgt gcatgcggag ggacacagcg ctggagacag ccctcaatgc taaggcctac 360
aagcgcasaa gcgccagtcc ctgcgcgagg ccgcacacac tgagaagctg gagaagcagc 420
agaagatcga gcaggagcgc aagcgccggc agaagcacca ggaatacctc aatagcattc 480
tccagcatgc caaggatttc aaggaatatc acagatccgt cacaggcaaa atccagaagc 540
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agctcatcga ccagaagaag gacaagcgcc tggcctacct cttgcagcag acagacgagt 720
acgtggctaa ctacggagc tgggtgncggc acaaggctgc ccaggtcgcc aaggagaaaa 780
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cggatg 846

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<210> 19
 <211> 2192
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (115)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2106)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2118)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2143)
 <223> n equals a,t,g, or c

<400> 19
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2192

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<210> 20

<211> 1011

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<400> 20

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gacagtttta ccgcattccr tccactcccg attccttcat ggatccggcg tctgcacttt 180
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ttaagttcga gggcggagtg gtgattgccg cagacatgct gggatccctac ggctccttg 300
ctcgtttccg caacatctct cgcattatgc gagtcaaaa cagtaccatg ctgggtgcct 360
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aaaaaggtgt tgaaatagag ggaccattgt ctacagagac caactgggat attgccaca 840
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<210> 21

<211> 2019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2003)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2007)

<223> n equals a,t,g, or c

<400> 21

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cggatttggs ttcattccacc acaactgtac amctgaattc caggccaatg aagttyggaa 360
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gcccagggtg aagggtggcg ccatagcctc cattcgtatg agaagcggct tttctgaaaa 1920
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aaaaaaaaat tctcgggggg ggnccngta cccaattgg 2019

```

<210> 22

<211> 2022

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1588)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1615)

<223> n equals a,t,g, or c

<400> 22

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tgtgacgcca ctcaccttta ctgaggtgca cgagggccgt gctgacatca tgatcgactt 180
cgccaggtac tgcatggggg acgacctgcc gtttgatggg cctggggcat cctggcccat 240
gccttcttcc ccaagactca ccgagaaggg gatgtccact tcgactatga tgagacctgg 300
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tgctggggct gcagcacaca acagcagcca aggcctgat gtccgccttc tacaccttcc 420
gctaccactt gactctcagc ccagatgact gcagggcggt tcaaacaccta tatggccagc 480
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tgagattgca ccgctggagc cagacgcccc gccagatgcc tgtgaggcct cctttgacgc 600
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caggccggat cctcctgaag cccttttcgc agcactgcta tcctccaaag ccattgtaaa 1860
tgtgtgtaca gtgtgtataa accttcttct tctttttttt ttttaaaactg aggattgtca 1920
ttaaacacag ttgttttcta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaggggc gccgctcgcg atctagaact ag 2022
```

<210> 23

<211> 1126

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1126)

<223> n equals a,t,g, or c

<400> 23

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caggtaaaact cctgtccctt acacattcgg ctccctggag cagactctgg tcttctttgg 120
gtaaacgtgt gacgggggaa agccaaggtc tggagaagct cccaggaaca ayygatggcc 180
ttgcagcact cacacaggac ccccttcccc taccctctcc tctctgccgc aatacaggaa 240
cccccagggg aaagatgagc ttttctaggc tacaattttc tcccaggaag ctttgatttt 300
taccgtttct tccctgtatt ttctttctct actttgagga aaccaaagta accttttgca 360
cctgtctctt tgtaatgata tagccagaaa aacgtgttgc cttgaaccac tccctcatc 420
tctcctccaa gacactgtgg acttggtcac cagctcctcc cttgttctct aagttccact 480
gagctccatg tgccccctct accatttgca gagtcttgca cagttttctg gctggagcct 540
agaacaggcc tcccaagttt taggacaaac agctcagttc tagtctctct ggggccacac 600
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caggctcttg agctgagcct ctcacctgta ctcttccgaa aaatcctctt cctctgaggc 720
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tcaccagctg cctcttctgt gggtgacca ggtccttggt tgctgttgat ttctttccag 960
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gagtattggg tagatatttt ttctgaatac aaagtgatgt gtttaaatac tgcaattaaa 1080
gtgatactga aacacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaan 1126
```

<210> 24

<211> 2598

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2304)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2533)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2553)

<223> n equals a,t,g, or c

<400> 24

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raggtttaa garactacca gaccatttct caatgaatgt cttggtagca ccagaccctg 120
```

```

agttcctatt gattcatcag attttgcatt ggatattcgc atgcctgggg ttacacctaa 180
acagtccgat acatacttct gcatgtctat gcgaatacca gtggatgagg aagccttcgt 240
gattgacttc aagcctcgag ccagcatgga tactgtccat cacatgttac tttttggatg 300
caatatgcct tcatccactg graattactg gttttgtgat gaaggaacct gtacagataa 360
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tggattcaga gttggaggag agactggaag taaatacttt gtactacagg tactatagg 480
ggatattagt gcttttagag ataataacaa ggactgttct ggtgtgtcct tacacctcac 540
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ggagaagagt cttcagggag cagtccctctg ccaggccagt tcaactgtcc tcacagcttg 2040
gctcttgtgc ctcttttggg ccaattatgt gtggcagacc gggaaaatgg tcggatccag 2100
tgttttaaaa ctgacaccaa agaatttgtg agagagatta agcattcatc atttgaaga 2160
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ggaaatccaa agaagcccga gggcatttgt tgtttcccn ttacaaccct tcgggttatt 2520
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aggggccctt tgggaaga
2598

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<210> 25

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (358)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (368)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<400> 25

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gcaccagat gccagggcg aggtgcgctt gtctgtaccc ccgctggtgg aggtgatgcg 180
aggaaagtct gtcattcttg actgcacccc tacgggaacc cacgaccatt atatgctgga 240
atggttcctt accgaccgct cgggagctcg cccccgccta gcctcggtcg agatgcaggg 300
ctctgagctc caggtcacaa tgcacgacac ccggggccgc agtcccccat accagctnng 360
actyccangg ggcgcctggt ngetggnytg anggccark tggcgacgag c 411
```

<210> 26

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<400> 26

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aggggaaggg ggaaaggtgt aggctggggg attgaggtgg ggaatcattt tagctggtgt 120
cagccctct tcccttcctc cattgcacat gaacatatgt ccatccatat atattcatca 180
gaatgttaat ttattttgct ccctctgtta ggtccatttt ctaagggttag aagaggcaag 240
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```

tggtagggat gaggtctgat aagaacccag ggtggagagg gagactcctg ggcagccgtt 300
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gacatgggaa aaaccactgc tatgccattt cttctctctg ttcccttctt caccctcgac 420
ggtgtggctg atgatgtctt ctggtgtcat ggtgaccacc ccctgttccc tgttctggta 480
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tctgcacgtt gctgaaggtc caggcttgcc tcaagttcca tgcttgagca ataaagtggg 600
aacaataaaa cctgggaaaa aaaaaaagg gggncgttct aaaggatccc cnagggg 657

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<210> 27

<211> 1903

<212> DNA

<213> Homo sapiens

<400> 27

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agccaccatg aaggtggggg aggtgtgcca catcacctgc aaaccagaat atgcctacgg 180
ttcagcaggc agtcctccaa agattcccc caatgccacg cttgtatttg aggtggagtt 240
gtttgagttt aagggagaag atctgacgga agaggaagat ggcggaatca ttcgcagaat 300
acagactcgc ggtgaaggct atgctaagcc caatgagggt gctatcgtgg aggttgact 360
ggaagggtac tacaaggaca agctctttga ccagcgggag ctccgctttg agattggcga 420
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agagcggggc actgtgtact tcaaggaagg taaatacaag caagctttac tacagtataa 720
gaagatcgtg tcttggctgg aatatgagtc tagtttttcc aatgaggaag cacagaaagc 780
acaggccctt cgactggcct ctcacctcaa cctggccatg tgtcatctga aactacaggc 840
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<210> 28

<211> 1333

<212> DNA

<213> Homo sapiens

<220>
<221> misc feature
<222> (1311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1319)
<223> n equals a,t,g, or c

<400> 28
ggccgctagt gccagctcg cagaaggcgc tgctgctgga gctcaagggg ctgcagggaag 60
agccggtcga gggattccgc gtgacactgg tggacgaggg cgatctatac aactgggagg 120
tggccatctt cgggcccccc aacacctact acgaggggcg ctacttcaag gcgcgcctca 180
agttcccat cgactacca tactctccac cagcctttcg gttcctgacc aagatgtggc 240
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acgcctccgt gatgtacagg aagtggaaag agagcaaggg gaaggatcgg gagtacacag 480
acatcatccg gaagcaggtc ctggggacaa ggtggacgcg ggtgaacggc gtgaagggtg 540
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ccgagtttac ctactaggg ccggaccgct ggctccttag acgacagact acctcacgga 780
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cactcggggc tcggtggacg ggcccagggt gggagckgcc ggcccacctg tccctcggg 960
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ggagccacgt ccagcacaga gtggacggat tcaccgtggc cgactctttt ccctgctttg 1200
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aaaaaaaaaa ttt 1333

<210> 29
<211> 1327
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (573)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1325)

<223> n equals a,t,g, or c

<400> 29

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cttgttctcc gccgccgccg cccgccgccg ccgccrccgc cgcygccgct gccatggctc 60
aatacaaggc cgcgcgcgag gaggccggcc ggcgccatga cctgatgaag aagcgggaga 120
agcagcgcga gcagatggag cagatgaagc agcgcacgcs ggaggagAAC atcatgaaat 180
ccaacattga caagaagttc tctgcgcact acgacgcggt ggaggcagag ctcaagtcca 240
gcaccgtggg tctcgtgacc ctgaatgaca tgaaggccaa gcaggaggct ctggtgaagg 300
agcgggagaa gcagctggcc aagaaggagc agtccaagga gctgcagatg aagctggaga 360
agcttcgaga gaaggagcgt aagaaggaa ccaagcggaa gatctccagc ctgtccttca 420
ccctggagga ggaagaagag ggaggcgagg aggaagagga ggcggccatg tatgaggagg 480
agatggaaag ggaagagatc accacgaaga agagaaaact ggggaagaac ccagacgttg 540
acacaagctt cttgcctgat cgagaccgtg agnaggagga gaatcggctt cgggaagagc 600
tgccgcagga gtgggaagcc aagcaggaga agatcaagag tgaggagatc gagatcacct 660
tcagctactg ggatggctct gggcaccggc ggacagtcaa gatgagaaag ggcaacacca 720
tgcagcagtt cctgcagaag gcgctcgaga tccttcggaa agacttcagt gagctgaggt 780
ccgcagggkt ggagcagctc atgtacatca aggaggactt gatcatccct caccatcaca 840
gcttctacga cttcatcgtc accaaggcac ggggggaagag tggaccactc ttcaactttg 900
atgttcatga cgatgtgcgg ttgctcagtg acgccactgt ggagaaggat gagtcccattg 960
caggcaaggc ggtgctgagg agctggtacg agaagaacaa gcacatcttt cccgccagcc 1020
gctgggaacc ctacgaccct gaaaagaagt gggacaagta cacgatccgc tgagcatcca 1080
ggaggctgcg cggccccggc tcctcagctc cctcagtgtg ccccggtgtg tcaccgggac 1140
tccaggcacc cgctcccctg cgaccatgcc aggcacgctg ggaggaggac ggcagctgct 1200
cgtgtcctgc ccctgccaca tcagtgactg ctttattctt ttccaataaa gaagtgcacg 1260
tgtcagagct ggagcgcctg cattgtgaga aaaaaaaaaa gaggggnaag aaaaaaaaaa 1320
agggngg
```

<210> 30

<211> 709

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (701)

<223> n equals a,t,g, or c

<400> 30

```

aattcccggg ttcgaccac gcgtccggaa aactgcagct tccttctcac cttgaagaat 60
aatcctagaa aactcacaaa atgtgtgatg cttttgtagg tacctggaaa cttgtctcca 120
gtgaaaactt tgatgattat atgaaagaag taggagtggg ctttgccacc aggaaagtgg 180
ctggcatggc caaacctaac atgatcatca gtgtgaatgg ggatgtgatc accattaaat 240
ctgaaagtac ctttaaaaat actgagattt ccttcatact gggccaggaa ttgacgaag 300
cactgcagat gacaggaaaag tcaagagcac cataacctta gatgggggtg tcctggtaca 360
tgtgcagaaa tgggatggaa aatcaaccac cataaagaga aaacgagagg atgataaact 420
ggtggtggaa tgcgtcatga aaggcgtcac ttccacgaga gtttatgaga gagcataagc 480
caagggacgt tgacctggac tgaagtctgc attgaactct acaacattct gtgggatata 540
ttgttcaaaa agatattggt gttttccatg atttagcaag caactaattt tctcccaagc 600
tgattttatt caatatgggt acgttgggtt aataaacttt ttttagattt aaaaaaaaaa 660
aaaaaaaaacc ycgggggggg gcccgggtacc caattngccc nttagggggg 709

```

<210> 31

<211> 1108

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<400> 31

```

tgcttatcct tgtgctgatg tttgtggtat ggatgaaacg ccgggataaa gaacgccagg 60
ccaaacaact tttaattgat ccagaagatg atgtaagaga taatatTTTA aaatatgatg 120
aagaaggtgg aggagaagaa gaccaggact atgacttgag ccagctgcag cagcctgaca 180
ctgtggagcc tgatgccatc aagcctgtgg gaatcygacg aatggatgaa agacccatcc 240
acgccgagcc ccagtatccg gtccgatctg cagccccaca ccctgggagac attggggact 300
tcattaatga gggccttaaa gcggctgaca atgacccac agctccacca tatgactccc 360
tgttagtgtt tgactatgaa ggcagtggnt ccactgntgg gtccttgagc tcccttaatt 420
cctcaagtag tgggtggtgag caggactatg attacctgaa cgactggggg ccacggttca 480
agaaacttgc tgacatgtat ggtggagggtg atgactgaac ttcaggggtga acttggtttt 540
tggaacaagta caaacaattt caactgatat tccccaaaag cattcagaag ctaggcttta 600
actttgtagt ctactagcac agtgcttgct ggaggctttg gcataggctg caaaccaatt 660
tgggctcaga gggaaatatca gtgatccata ctgtttgga aaacactgag ctcagttaca 720
cttgaatttt acagtacaga agcactggga ttttatgtgc ctttttgtag ctttttcaga 780
ttggaattag ttttctgttt aaggctttta tggtagctgat ttctgaaacg ataagtaaaa 840
gacaaaatat tttgtggtgg gagcagtaag ttaaaccatg atatgcttca acacgctttt 900
gttacattgc atttgctttt attaaaatac aaaattaaac aaamaaaaaa actcatggag 960
cgattttatt atcttggggg atgagaccat gagattggaa aatgtacatt acttctagtt 1020
ttagacttta gtttgttttt tttttttttt cactaaaatc ttaaaactta ctcagctggt 1080
tgcaataaaa gggagttttc atatcacc 1108

```

<210> 32

<211> 526

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 32

```

gaatttttca ttatgttgct tttgaaattt gatgcattcc tcccatttac tttattattg 60
tacacattta acacacagta gcaaattttg aacgatgtga ttgatataac ctaacaaatc 120
tgagccagtt attattagag ttgcagaata gaaacttgaa gtgctaaatg gaataatcca 180
aaggaaaattt tttaaatgca ggttctagct gaaaaattca actataagaa aattgtattt 240
atataacatt tactattttt gaagactagt gagatttctg taataatttt aattctttaa 300
aaagtgaag cttgttgtaa agatattttc tttttgttat tagaaggaaa tacaagaga 360
aaaatttctt tctttcatgg ggcatttgat aatttcagtc tttagcgatt tgtaagccta 420
gaatatacta agctgaataa cagctctttg gcctcagaat tttccagtag ccagtawttc 480
yggattaact aagttggaaa cncytattag gaacctccag tggnga 526

```

<210> 33

<211> 555

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 33

```

ccggaccctg caccagcga ctgggccccg cgcgcgccct ccgcgagggt ggaggcggcg 60
gctgtgtgcg cagggcccg caccggactg ggaccctggc gtccctccag gccttgccctc 120
ctgcgggags acagtttggc ttcacttctc tgacccagc ctcggccgta aagtgaaga 180
gaccggacca gcttcagctt tcggactctg gttcttgga cgtgtcctct cccctcgcc 240
gccctcttcc cccaatctga gccattkcag gcctctgcct gckgccccct ctctcctcgg 300
gatcggttcc ccagagccac catctctga gcctcccacc ccgctgcctg ggccctgtgg 360
ttgctgggce tcccacctca aggaggggaa ggttgtagag cccgaaccgg tggagcaatg 420
ccctgtctgg cctccaaaac caaaataaaa ctgggtcact ttacaaaaaa aaaaaaaaaa 480
aaggccccgg gaanaccgga ccggtacctg caggcgtagc ngtttcccta tagtgagttg 540
tattagcgtt gcata 555

```

<210> 34
 <211> 347
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (288)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (328)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (335)
 <223> n equals a,t,g, or c

<400> 34
 gggtcgaccc acgcgtccgg accgcgcggc tagtggtgtg aggatctgag ccccggtggtg 60
 gggggtggag gcggctcctg cratctaaag ggacttgaga ctctcaccgg ccgcgcgcca 120
 tgagggccct gtgggtgctg ggcctctcct gctcctgct gaccttcggg tcggtccgar 180
 ctgaygatga agtcgatgtg gatggtacag tggagagga tctgggtaaa agtagagaag 240
 gttcaaggac agatgatgaa gtagtacaga gagaggaaga agctattnca gttggatgga 300
 ttaaattgcat cccaaataag agaacttnag agagnaagtc cagaaaa 347

<210> 35
 <211> 750
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (701)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (731)
 <223> n equals a,t,g, or c

<400> 35
 ggggtggcttc cttgtggttc ctcagtgtgt cctgcaaccc ctggttcacc tccttccagg 60
 ttctggctcc ttccagccat ggctctcaga gtccttctgt taacagcctt gaccttatgt 120
 catgggttca acttgacac tgaacacgca atgaccttc aagagaacgc aaggggcttc 180
 gggcagagcg tggccagct tcagggatcc aggggtggtg ttggagcccc ccaggagata 240
 gtggctgcc accaaagggg cagcctctac cagtgcgact acagcacagg ctcatgcgag 300
 cccatccacc tgcaggtccc cgtggaggcc gtgaacatgt ccctgggcct gtccctggca 360
 gccaccacca gccccctca gctgctggcc tgtggtccca ccgtgcacca gacttgacgt 420

```

gagaacacgt atgtgaaagg gctctgcttc ctgtttggat ccaacctacg gcagcagccc 480
cagaagttcc cagagggcct ccgaggggtgt cctcaagarg atagtgcacat tgccttcttg 540
attgatggct ctggtagcat catcccacat gactttcggc ggatgaagga rtttgtctca 600
actgtgatgg agcaattaaa aaagtccaaa accttggtct ctttgatgca gtactctgaa 660
gaattccgga ttcaactttac ttcaaagagt tccagaacaa ncctaaccce agatcactgg 720
tgaagccaat nacgcagctg cttggggcgg                                     750

```

<210> 36

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (795)

<223> n equals a,t,g, or c

<400> 36

```

aagaaaaatg tactacgcct gtcctgtang aagctgaaga tttttgcaat gcccattgag 60
gatatcaaga tgatcctgaa aatggtgcag ctggactcta ttgaagattt gggaagtgc 120
ttgtacctgg aagctaccca ccttggcgaa attttctcct tacctgggcc agatgattaa 180
tctgcgtaga ctctctctct cccacatcca tgcattctcc tacatttccc cggagaagga 240
agagcagtat atcgcccagt tcacctctca gtccctcagt ctgcagtgcc tgcagctnct 300
ctatgtggac tctttatatt tccttagagg ccgcctggat cagttgctca ggcacgtgat 360
gaaccctctg gaaaccctct caataactaa ctgccggctt tcggaagggg atgtgatgca 420
tctgtcccag agtcccagcg tcagtcagct aagtgtcctg agtctaagtg gggtcattgt 480
gaccgatgta agtcccagcg ccctccaagc tctgctggag agagcctctg ccaccctcca 540
ggacctggtc tttgatgagt gtgggatcac ggatgatcag ctccctgccc tcctgccttc 600
cctgagccac tgctcccagc ttacaacctt aagcttctac gggaattcca tctccatatt 660
tgcccttgca agtctcctgc agcacctcat cgggntgagc aatctgaccc acgtgctgta 720
tcctgtcccc ctggagagtt atgaggacat ccatggtamc ctccamctgg agagggttgc 780
atctgcatgc caggntcagg gagttgctgt gtgatttggg gcggcccagc atgggttctg 840
cttagtgggc aaccctctgc ctactgtgg ggacagaacc ttctatgacc cggagcccat 900
cctgtgcccc tgtttcatgc ctaatarctg ggtgcacata tcaaatgctt cattctgcat 960
acttgacac taaagccagg atgtgcatgc atcttgaagc aacaaagcag ccacagtttc 1020
agacaaatgt tcagtgtgag tgaggaaaac atgttcagtg agggaaaaac attcagacaa 1080

```

```

atgttcagtg aggaaaaaaa ggggagttgg ggataggcag atgttgactt grggagktaa 1140
tgtgatcttt ggggagatac atcttataga gttagaaata gaatctgaat ttctaaaggg 1200
agawtctggc ttgggaagta catgtaggag ttaatccctg tgtagactgt tgtaaagaaa 1260
ctgttgaaaa taaagagaag caatgtgaag c 1291

```

```

<210> 37
<211> 1535
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1413)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1526)
<223> n equals a,t,g, or c

```

```

<400> 37
ggcacgaggg tacgcagagc ttcgtcttcc agcgcgaaga gatagcgagc ttggcgcggc 60
agtacgctgg gctggaccac gagctggcct tctctcgtct gatcgtggag ctgcggcggc 120
tgcacccagg ccacgtgctg cccgacgagg agctgcagtg ggtgttcgtg aatgcgggtg 180
gctggatggg cgccatgtgc cttctgcacg cctcgctgtc cgagtatgtg ctgctcttcg 240
gcaccgcctt gggctccgcg ggccactcgg ggcgctactg ggctgagatc tcggatacca 300
tcatctctgg caccctccac cagtggagag agggcaccac caaaagtga gtccttctacc 360
caggggagac ggtagtacac ggcctggtg aggcaacagc tgtggagtgg gggccaaaca 420
catggatggt ggagtacggc cggggcgctc tcccattccac cctggccttc gcgctggccg 480
acactgtctt cagcaccacg gacttccctc ccctcttcta tactcttcgc tcctatgtc 540
ggggcctccg gcttgagctc accacctacc tctttggcca ggacccttga ccagccaggc 600
ctgaaggaag acctgcggat ggacaggagc gggcaggccc gcacatatcc acttgctgga 660
gcccattgtt acagacaggg acatacacca tgcagatcct gaggctcctg tgatagagca 720
gggatatacca tgcttatgta tccaaacaca gagaccatg ggaacaaatg agacacatat 780
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actgaggcct ttccatagct ccacagcttc ccacctcctc cccaccaaac cgggggttcta 960
gagttaagga tgggggaggg tattatactg cctcagctg actcctcaac ccagcagcaa 1020
tttgagggga tgagggggaa gaggagctgc cttttggagg ccccttccac ctgcagctat 1080
gatgcccttc cccttctccc ctgtcctcac catatgcctt atccccattc tactccctg 1140
ctatgcaagt gccctgtgg cttgtcccca acccctcag caacaaagct cagctgggga 1200
acgagagtaa tttgaagaat gcttgaagtc agcgtcttcc attccagaaa gacccccatt 1260
cttcctttgg gggatgatg tggaagctgg tttcagccca ggaccacca ctgaggagag 1320
gatctagaca ggtgggccta attccaaggg gcccttcctg gcctggagaa ggccttttac 1380
acacacacaa cacatacaca cacacacaca canacacata tcacagtttt cacacagccc 1440
ctgctgcatt ctctgtccat ctgtctgttt ctattaataa agatttggtg atctgttcca 1500
aaaaaaaaa aaaaaaaaaa aaaaangggg gggct 1535

```

```

<210> 38
<211> 295
<212> DNA

```


<213> Homo sapiens

<400> 38

```
ctgggtcacac tattacatgc catgcaggca cgcgataaaa cgctggggct ggcaacactg 60
tgcattggcg gcggtcaggg aattgcatg gtgattgaac ggttgaatta atcaataaaa 120
acacccgata gcgaaagtta tcgggtgttt tcttgaacat cgacggcgaa ggtaacccca 180
ttaatcacca gtcaaaactt ttcaccagcg tcaactcgcca gcattacgca tcggtacaat 240
aaatgtttcc tgtttctcat tgaccgatcc ttcacggtg atcagcgtca ttggg      295
```

<210> 39

<211> 1300

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1298)

<223> n equals a,t,g, or c

<400> 39

```
gcggactggc agggggcagg gaagctcaaa gatctggggg gctgccagga aaaagcaaat 60
tctggaagtt aatgggtttt agtgattttt aaatccttgc tggcggagag gccgcctct 120
ccccggtatc agcgttcctt cattctttga atccgcggct ccgcggctct cggcgctcaga 180
ccagccggag gaagcctgtt tgcaatttaa gcgggctgtg aacgcccagg gccggcgggg 240
gcggggccga ggcggggccat tttraataaa gaggcgtgcc ttccaggcag gctctataag 300
traccgccgc ggcgagcgtg cgcgckttgc aggtcactgt agcgggactt cttttggttt 360
tctttctctt tggggcacct ctggactcac tccccagcat gaaggcgtg agcccggtgc 420
gcggctgcta cgaggcgggtg tgctgcctgt cggaacgcag tctggccatc gcccggggcc 480
gagggaaggg cccggcagct gaggagccgc tgagcttgct ggacgacatg aaccactgct 540
actcccgcct gcggraactg gtacccggag tcccagagag cactcagctt agccaggtgg 600
aaatcctaca gcgcgtcatc gactacatc tcgacctgca ngtagtcctg gccgagccag 660
cccctggacc ccctgatggc cccacattc ccatccagac agccgagctc gctccggaac 720
ttgtcatctc caacgacaaa aggagctttt gccactgact cggccgtgtc ctgacacctc 780
cagaacgcag gtgctggcgc ccgttctgcc tgggaccccg ggaacctctc ctgccggaag 840
ccggacggca gggatgggcc ccaacttcgc cctgcccact tgacttcacc aaatcccttc 900
ctggagacta aacctggtgc tcaggagcga aggactgtga acttggtggc tgaagagcca 960
gagctagctc tggccaccag ctgggcgacg tcaccctgct cccacccac ccccaagttc 1020
taaggtctyt tcagagcgtg gaggtgtgga aggagtggct gctctccaaa ctatgccaaag 1080
gcggcggcag agctggtctt ctggtctcct tgagaaaagg ttctgttgcc ctgatttatg 1140
aactctataa tagagtatat aggttttgta ctttttttac aggaaggtga ctttctgtaa 1200
caatgcgatg tatattaac tttttataaa agttaacatt ttgcataata aacgattttt 1260
```

aaacaaaaaa aaaaaaaaaa aagggggggcc gccctanngg 1300

<210> 40

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<400> 40

cagaaacaga agttcacact aacagagtat gggttttaatt ttcctttgaa tgaaaaggat 60
agaaagataa aattgtgtat tgtaacatg taaataaaat tggagctaata ttgaaactag 120
cttctcaata acttcattctt tctagagact cattacctgt gggcttgctm aacctggact 180
atttggccaa atwggttgga taaaaaaggn atntt 215

<210> 41

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (85)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (374)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<400> 41

tcgaccacg cgtccgggag actacggtaa aggcgcgcgc acgcagccaa catgccggtg 60
gcccggagct gggtttgctg caagnctacg tgaccctctg gaggccttt gagaagtcgc 120

```

ggctcgacca agagctgaag ctgataggcg agtacgggct ccggaacaaa cgtgaggtgt 180
ggaggggtcaa gttcaccctg gccaaatcc gcaagnccgc gcgggarctg ctgacgctgg 240
acgagaagga cccgcggcgc ctgtttgagg gcaatgcctt gcttcggcga ctggtgcgca 300
ttggagtgtc ggacgagggc aagatgaagc tggattatat cctgggtctg aagatgagga 360
ttcttgaga grcntctgca gaccaggtt tttcaagctg gggttggcca atccatccac 420
catgccctgt gctgatccgc caggccacnc aggtccgaaa gcaagtgggtg aaca      474

```

<210> 42

<211> 425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<400> 42

```

cctgccttc gatgaatatg ggcgcccttt cctcatcatc aaggatcagg atcgcaagtc 60
tcgtcttatg ggactggagc tctcaagtct catatcatgg cggcaaaggc ttagcaaat 120
accatgagaa catcacttgg accaaatgga cttgataaaa tgatggtgga caaggacggc 180
gacgtgacgg tcacaaacga cggtgccacg attctgagca tgatggatgt cgatcaccag 240
attgccaagc tgatggtgga gctgtccaaa tcccaggatg atgaaatcgg agatggggac 300
cacgggggtg gttgtcctg cgggcgcctt gctggaagga ggccgagcag ctgctggacc 360
gcggcattca mccgntcagg atcgccgacg gttacgagca ggntgccgcg attggccntc 420
gagca      425

```

<210> 43

<211> 1187

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1160)

<223> n equals a,t,g, or c

<400> 43

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tgtgggaact ggtgggtccc ccgggctggc agnaattggg nacgcgggtc gcggttcttg 60
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aagaccatca ccctcgaggt tgagcccagt gacaccatcg agaattgtcaa ggcaaagatc 180
caagataagg aaggcatccc tcctgaccag cagaggctga tctttgctgg aaaacagctg 240
gaagatggkc gcacctgtc tgactacaac atccagaaag agtccaccyt gcacctggtr 300
ctccgtctca gaggtgggat gcaaattctt gtgaagacac tctctggcaa gaccatcacc 360
cttgaggtcg agcccagtga cacyatcgag aacgtcaaag caaagatcca rgacaaggaa 420
ggcatttcctc ctgaccagca gaggttgatc tttgccggaa agcagctgga agatgggcgc 480
accctgtctg actacaacat ccagaaagag tctaccctgc acctggtgct ccgtctcaga 540
ggtgggatgc agatcttcgt gaagaccctg actggttaaga ccatcacyst cgargtgagg 600
ccgagtgaca ccattgagaa tgtcaaggca aagatccaag acaagggaagg catccctcct 660
gaccagcaga ggttgatctt tgctgggaaa cagctggaag atggacgcac cctgtctgac 720
tacaacatcc agaaagagtc caccctgcac ctggtgctcc gtcttagagg tgggatgcag 780
atcttcgtga agaccctgac tggtaagacc atcactctcg aagtggagcc gagtgcacac 840
attgagaatg tcaaggcaaa gatccaagac aaggaaggca tccctcctga ccagcagagg 900
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accctgactg gtaagacat cacyctcgaa gtggagccga gtgacacat ygagaatgtc 1080
aaggcaagat ccagacaagg aaggcatcct cctgaccagc agargttgat tttgctggga 1140
aaarcttgna aatggncgan cccttttgat taaaatcccg aaagtcc 1187

```

<210> 44

<211> 515

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (217)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<400> 44

```
ctgcagtacc gtccgaattc ccgggtcgac ccacgcgtcc ggtttgagcc gtcgtgcttc 60
accggtctac ctcgctagca tgtcgggccc cggaagact ggcggaagg cccgcgcaa 120
ggccaagtgc cgctcgtcgc gcgccggcct ccagttccca gtgggcccgtg tacaccggct 180
gctgcggaag ggccactacg ccgagcgcgt tggcgcnngc rcgccagtgt acctggcggc 240
agtgcgtggag tacctcaccg ctgagatcct ggagctggcg ggcaatgcgg cccgcgacaa 300
caagaagacg cgaatcatcc cccgccacct gcagctggcc atccgcaacg acgaggagct 360
caacaagctg ctggggcgcg tgacgatcgc ccagggaagg cgtyctgcc aacatccagg 420
ccgtgsttgy tgcccaagaa gaccagcgcc accgtggggc cgaangccct tcggggggca 480
agaaagggca accaaggctt cccaaggagt actaa 515
```

<210> 45

<211> 1499

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1476)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1492)

<223> n equals a,t,g, or c

<400> 45

```
gcgagtgcgc gctcctcctc gcccgccgct aggtccatcc cggcccagcc accatgtcca 60
tccacttcag ctccccggca tccgcgaggt caccattaac cagagcctgc tggccccgct 120
gcggctggac gccgacccct cctccagcgc ggtgcgccag gaggagagcg agcagatcaa 180
gacctcaac aacaagtgtg cctccttcat cgacaaggtg cggtttcttg agcagcagaa 240
caagctgctg gagaccaagt ggacgctgct gcaggagcag aagtcggcca agagcagccg 300
cctcccagac atctttgagg cccagattgc tggccttcgg ggtcagcttg aggcactgca 360
ggtggatggg ggccgccttg aggcggagct gcggagcatg caggatgttg tggaggactt 420
caagaataag tacgaagatg aaattaaccg ccgcacagct gctgagaatg agtttgtggt 480
gctgaagaag gatgtggatg ctgcctacat gagcaagggt gagctggagg ccaagggtga 540
tgccctgaat gatgagatca acttcctcag gacctcaat gagacggagt tgacagagct 600
gcagtcccag atctccgaca catctgtggt gctgtccatg gacaacagtc gctccctgga 660
cctggacggc atcatcgctg aggtcaaggc rcagtatgag gagatggcca aatgcagccg 720
ggctgaggct gaagcctggt accagaccaa gtttgagacc ctccaggccc aggctgggaa 780
gcatggggac gacctccgga ataccggaa tgagatttca gagatgaacc gggccatcca 840
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ggaactcatg agcgtgaagc tggccctgga catcgagatc gccacctacc gcaagctgct 1080
ggagggcgag gagagccggg tggctggaga tggagtggga gccgtgaata tctctgtgat 1140
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gggcagcaat gccctgagct tctccagcag tgcgggtcct gggctcctga aggettattc 1260
catccggacc gcatccgcca gtcgcaggag tgcccgcgac tgagccgcct cccaccactc 1320
```

cactcctcca gccaccaccc acaatcacaa gaagattccc acccctgcct cccatgcctg 1380
gtcccaagac agtgagacag tctggaaagt gatgtcagaa tagcttccaa taaagcagcs 1440
tcattctgag gcctgagtga aaaaaaaaaa aaaaanaaaa aaaaaaattt tngggggggg 1499

<210> 46
<211> 393
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<400> 46
tcgacccacg cgtccggcag cctttctgag ggagcggttg tgtgttcgcc atcttaggaa 60
gaagatgttc tcgtccgtgg cgcattctggc cgggcggaacc cttcaacgc gccccacctg 120
cagctggtac acgatggcct cacgggcacc gaagcagccc cgtgggnacc cccgggcncg 180
ccccgaacgt tcccgcaatc tggcagcagc cgctgtggna agagtacagt tgcgaatatg 240
gctccatgaa gttttatgca ctgtgtggct ttggtggggt ctttaagttgt ggtctgacac 300
acactgctgt cgttcctctg gat tttagtga aatgccgaat gcargtggac ccccgagaant 360
acaagggcak wnttaatngg attctcatta aca 393

<210> 47
<211> 238
<212> DNA

<213> Homo sapiens

<400> 47

```
cggatcccg ctcctgcatc cagtcgccat tcgggaggcc gctgcgctgc agggcctcgc 60
ggaccgccc cgcaccgag ccgggccctc cgcgcggtcc atcgcccact ggacgcccgc 120
cgcggccgga ccggttcaac ttctcatctt tgttcttctt catatactat aggtgtttg 180
ctgtggttta gtcaaaaagc catgtagaat gcctgccttt tgaagaccac ttttaagg 238
```

<210> 48

<211> 939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (937)

<223> n equals a,t,g, or c

<400> 48

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gccaccatct tggaacggga ggcggagcag agtcgactgg gagcgaccga gcgggccgccc 60
gccgccgcca tgaaccccga atatgactac ctgtttaagc tgcttttgat tggcgactca 120
ggcgtgggca agtcatgcct gtcctgcgg tttgctgatg acacgtacac agagagctac 180
atcagcacca tcggggtgga cttcaagatc cgaaccatcg agctggatgg caaaactatc 240
aaacttcaga tctgggacac agcgggccag gaacgggtcc ggaccatcac ttccagctac 300
taccgggggg ctcatggcat catcgtggtg tatgacgtca ctgaccagga atcctacgcc 360
aacgtgaagc agtggctgca ggagattgac cgctatgcca gcgagaacgt caataagctc 420
ctggtgggca acaagagcga cctcaccacc aagaaggtgg tggacaacac cacagccaag 480
gagtttgcaag actctctggg catccccttc ttggagacga gcgccaaaga tgccaccaat 540
gtcgagcagg cgttcatgac catggctgct gaaatcaaaa agcggatggg gcctggagca 600
gcctctgggg gcgagcggcc caatctcaag atcgacagca cccctgtaa gcccgtggc 660
ggtggctgtt gctagsaggg gcacatggag tgggacagga gggggcacct tctccagatg 720
atgtccctgg agggggcagg aggtacctcc ctctccctct cctggggcat ttgagctctg 780
ggctttgggg tgcctgggc tccccatctc ctcttgccc atctgcctgc tgccctgagc 840
cccggttctk tmaggttccc taaaggagga cactcagggc ctgtggcagg cagggcggag 900
gctgcttggt ctgttgccct taagtgaatt tccaaangc 939
```

<210> 49

<211> 1771

<212> DNA

<213> Homo sapiens

<400> 49

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tttgacagag actccaacca gctgtggaac atcagcgccg tcccttcctg gtccaaagt 120
aaccagggtc tcatccgcat gtataaggcc gagtgcctgg agaagttccc tgtgatccag 180
cacttcaagt tcgggagcct gctgcccatc catcctgtca cgtcgggcta ggaggggcca 240
agccgaagag ccacccaggc cacagttcct gtgcctgcct tccccacccc agcagtggc 300
cctccccatc ccctccctct gtctgtcccg tttgatgaga ggctgtttac tggggtggg 360
tggcgagatg ggcttgaggg ggctcagagc ataaggcttc agggcccaag ttgggagaag 420
tgaccaaagt gtagccagtt ttctgagttc ccgtgtgcta gactggccag aagagagggt 480
ctggggcctg gtcactcggc cactctctcc tgtttctggc ctcttctccc ttcactccc 540
```

```

tccagtctgg ttttgagagc aggggctgtt ctgcagcacc kcagggaagg gaggagagat 600
acctgctgct tccattgctt ttcccttcct ggagtcgatg cctttctaag gggtggagct 660
gctccttgca ggggcgggtc agtttcccag gccatgccgg ggtggccatc tatgctaggg 720
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caaaggctcag tgacagtttc tcagaagagg ccagcgtcc acctctctcc cagggccaga 1620
cacccttccc tggctcccc atccccctat ggctcccagc cccttgacc ctcatgtctg 1680
ttcagattaa agcctctgtt ttgcacctgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaaaaaa aaaaaaaaaa aaaaaaattt t 1771

```

<210> 50

<211> 397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (207)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<400> 50

```

gggtcgaccc acgctccgc tcgctccggg atcgcccgcg ctagagacgc atagcgtct 60
aatcgctcgc acgcaccggc cctcgctcgc tcgccgctcc gtgccgccgc cgcccagccc 120
accgccaccc tttgcagcca tgtccaccag gtcygtgtcc tcgtcytcct accgcagatg 180
ttcggcggcc ccggcaccgg nagcggncgg agctccacgc gcataacgtg accagtccac 240
ccgcacctac agcctgggca gcgcctgcgc ccagcacca gccgcagcct ctamamctcg 300
tccccgggcg gcgcgtatgt tcacggctcc ttccgcggtg cgccctgcga anatgttgcc 360
ccggcgctgc gcttgctggc aggattccgt ggaattt 397

```


<210> 51
<211> 1635
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1617)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1620)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1629)
<223> n equals a,t,g, or c

<400> 51
gccccacgcgt ccgccccacgc gtccgccccac gcgtccgcct ctccagccct tctcctgtgt 60
gcctgcctcc tgccgcccc accatgacca cctccatccg ccagttcacc tcctccagct 120
ccatcaagggt ctccctccggc ctggggggcg gctcgtcccg cacctcctgc cggctgtctg 180
gcggcctggg tgccggctcc tgcaaggctgg gatctgtctg cggcctgggc agcaccctcg 240
ggggtagcag ctactccagc tgctacagct ttggctcttg tgggtggctat ggcagcagct 300
ttgggggtgt tgatgggctg ctggctggag gtgagaaggc caccatgcag aacctcaatg 360
accgcctggc ctctacctg gacaagggtgc gtgccctgga ggaggccaac actgagctgg 420
agggtgaagat ccgtgactgg taccagaggc agggccccgg gcccgcccg gactacagcc 480
agtactacag gacaattgag gagctgcaga acaagatcct cacagccacc gtggacaatg 540
ccaacatcct gctacagatt gacaatgccc gtctggctgc tgatgacttc cgcaccaagt 600
ttgagacaga gcaggccctg cgcctgagtg tggaggccga catcaatggc ctgcgcaggg 660
tgctggatga gctgaccctg gccagagccg acctggagat gcagattgag aacctcaagg 720
aggagctggc ctacctgaag aagaaccacg aggaggagat gaacgccctg cgaggccagg 780
tgggtggtga gatcaatgtg gagatggacg ctgccccagg cgtggacctg agccgcatcc 840
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tgcagagtgg caagagtgag atctcggagc tccggcgcac catgcaggcc ttggagatag 1020
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accgctactg cgtgcagctg tcccagatcc aggggctgat tggcagcgtg gaggagcagc 1140
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tgaagacgcg gctggagcag gagattgcca cctaccgccg cctgctggag ggagaggatg 1260
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aagaggcca ggatggcaag gtcattctct cccgcgagca ggtccaccag accaccgcgt 1380
gaggactcag ctaccccggc cggccaccca ggaggcagg angcagccgc cccatctgcc 1440
ccacagtctc cggcctctcc agcctcagcc ccctgcttca gtcccttccc catgcttctc 1500

```

tgcctgatga caataaagct tgttgactca gctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaanttn 1620
gggggggggnc ccccc 1635

```

<210> 52

<211> 1780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1780)

<223> n equals a,t,g, or c

<400> 52

```

ccgccgccgc cgccgccgcc ggagctctgt agtatggcat cgaggagaat ggagaccaa 60
cctgtgataa cctgtctcaa aaccctcctc atcatctact ccttcgtctt ctggatcact 120
ggggtgatcc tgctggctgt tggagtctgg ggcaactta ctctgggcac ctatatctcc 180
cttattgccg agaactccac aaatgctccc tatgtgctca tcggaactgg caccactatt 240
gttgtctttg gcctgtttgg atgctttgct acatgctcgt gtagcccatg gatgctgaaa 300
ctgtatgcc a tgtttctgtc cctgggtgtc ctggctgagc tcgtagctgg catttcaggg 360
tttgtgtttc gtcattgagat caaggacacc ttcctgagga cttacacgga cgctatgcag 420
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gctgtggtgt gcagaactac accaactgga gcaccagccc ctacttcctg gagcatggca 540
tccccccag ctgctgcatg aacgaaactg attgtaatcc ccaggatcta cacaatctga 600
ctgtggccgc caccaaagt aaccagaagg gttgttatga tctggtaact agtttcatgg 660
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gcatgctgct ggccctgctgt ctgtcccgg tcatcacggc caatcagtat gagatggtgt 780
aaggagaagt ctttcaagaa tgacggaata agagacctgt tttaaaaagg aactgcagca 840
atctttgaaa gacttccaaa gaatgttaga gcacagtaca taatacactt gccctgctcc 900
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tgccacacac ctttaagtag ataagcagac gatagttatc tgttcttttg acttaatctc 1260
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ttcttgtgaa ggccatgata ttttgtttt ccccaattaa ttgctattgt gttattttac 1560
tacttctctc tgtattttt cttgcattga cattatagac attgaggacc tcatccaaac 1620
aatttaaaaa tgagtgtgaa gggggaacaa gtcaaaatat ttttaaaaga tcttcaaaaa 1680
taatgcctct gtctagcatg ccaacaagaa tgcattgata ttgtgaacat ttgtgatata 1740
tgtattaata aatagagcaa ttacaagcaa aaaaaaatgn 1780

```

<210> 53

<211> 490

<212> DNA

<213> Homo sapiens

<400> 53

```

aattcggcag agaattttca tgagtcgcct tcaaaactct cgtgtagggg tgacaatgtg 60
gggggggtgg ggatccagct tattctttta ttttcaagtc cattcttggg gctgggtggg 120
aggcaggaga atacccctcc ctaagccctt agtgtgtgcc gagcttgctt tgtgatgttg 180
gcaggggagg ggagacctgg gtggtgactg agttcccttt atcaaaccct tcaatgggca 240
caaaattgag tgcttgattt taggttttat ttttttatga atgtccaaat ctgtgtttcc 300
ccctgccctc ccagactgtg tggccagttg aaagtgtctg gtttgtgttc atctctccct 360
catttctgga gcagggcctg agaccctgcc acatctccta tgctctgcat ccacgcctct 420
tttggacatt aaaggttgat tgatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa                                     490

```

<210> 54

<211> 1944

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (466)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1308)

<223> n equals a,t,g, or c

<400> 54

```

acgggtacgga attcccgggt cgaccacgc gtccgacccc ggaccggag tcgcgagag 60
ctgggcagtg ttggccgctg gcggagcgtc ggggcagcat gaagtgcctg gtcacgggcg 120
gcaacgtgaa ggtgctcggc aaggccgtcc actccctgtc ccgcacggg gacgagctct 180
acctggaacc cttggaggac gggtctctcc tccggacggg gaactcctcc cgctctgcct 240
atgcctgctt tctctttgcc ccgtctttct tccagcaata ccaggcagcc acccctggtc 300
aggacctgct gcgctgtaag atcctgatga agtctttcct gtctgtcttc cgtcactgg 360
cgatgctgga gaagacggtg gaaaaatgct gcattctcct gaatggccgg arcagccgcc 420
tggtggtcca gctgcattgc aagttcgggg tgcggaagat camaanctgt ccttcmagga 480
ctgtgagtcc ctgcaggccg tcttcgaccc agcctcgtgc ccccatgc tccgcgcccc 540
agcacgggtt ctgggggarg ctgttctgcc cttctctcct gactggctg aagtgcgct 600
gggcattggc cgtggcgag gktcatcctg gcantaccac gaggaggagg cagacagcac 660
tgccaaagcc atggtgactg agatgtgcct tggagaggag gattccagc agctgcaggc 720
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caccatcaag gactctttgc tggacggcca ctttgtcttg gccacactct cagacaccga 900
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```

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cagtacagtg cctgggactc cccaccccaa gaagtccgc tcaactgttct tcggctccat 1200
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agctggccaa ggctggaaac ctgtctccct caggctcacc ttcctaagga aaatgtcata 1620
gtaggtgctg ctggccctg gtgatccagc ttctctgcc atcatgacct gttccttcct 1680
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tgccctggct ggggcccggt gccgagactc ccaagcggst ctgtgcagaa gagctgccag 1860
gcagtgtctt agatgtraga cggaggccat ggcgagaatc cagctttgac ctttattcaa 1920
gagaccagat gggtttgccc cagg                                     1944

```

<210> 55

<211> 994

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (896)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (971)

<223> n equals a,t,g, or c

<400> 55

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cgcgagagcg ktatctgcgt gtcgggacgt gcggaggtc tcaactttccg tcatggcgct 120
gaaggtagcg accgtcgccg gcagcgccgc gaaggcgtgc tcggggccagc ccttctctgc 180
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gtggactttg aagagggtgca cgtgagttcc aatgctgatg aagaggacat tcgcaatgcc 420
atcatggcca tccgccggaa ccgcgtggcc ctgaagggca acatcgaaac caaccataac 480
ctgccaccgt cgcacaaatc tcgaaacaac atccttcgca ccagcctgga cctctatgcc 540
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ctcattgtcc gggagaacac agagggcgag tacagcagcc tggagcatga gagtgtggcg 660
ggagtgggtg agagcctgaa gatcatcacc aaggccaagt ccctgcgcgt tgccgagtat 720
gccttcaagc tggcgagga gagcgggcgc aagaaagtga cggccgtgca caaggccaac 780
atcatgaaac tgggcgatgg gcttttctc cagtgtgtga gggagggtgc agcccggtac 840
cctcagwtca ccttcgagaa catgattgtg gataacacca ccatgcagct ggtgtncgg 900
ccccagcagt ttgatgtcat ggtgatgccc aatctctatg gcaacatcgt caaacaatgt 960
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```

<210> 56

<211> 328

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<400> 56
gggtcgaccc acgcgtccgc ccacgcgtcc ggatgacttc attgccaaag ttgttcaaag 60
gtagccttgg ccctttttca tctgagtccc atttagagat gtataaagaa tgttggtgag 120
tanggcgcgg tggctcacgc ctgtaatccc cacacnttgg gaaggccgan gcaggcggat 180
cacgaggtca gaagattgag accattcttg ctaacatggt gaaccccat ctctactaaa 240
aatacaaaaa ttagtcaggc gcgatggcgg gcacatgtag taccagctac tcgggaggct 300
gatgcagaag aataacttgg aacctggg 328

<210> 57
<211> 1489
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (710)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1218)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1467)
<223> n equals a,t,g, or c

<400> 57
cggcacgagg ggtggtgtgg gtgtgttttag aaaaaagatg cattcctgaa gatctctggt 60
gctgaagggc ctcgagttcc ttccagagac tgtatttgac acactttagg tacacacaaa 120
cgaatggtat cacatgcaat attttaatgg agcaatggga gaggtctttt gaaatggggg 180
ttgcatcttt ttgtaacatt ttgatttctc tgggtgcctta ttccacttg atgctggcac 240
tcacataccc acaagaagct gacacagaag tcagccttag gcgtggggac atatgggtga 300
tgtttgagca tgcagggggc atggggagtt tgggtgtcagt tgggtggagaa gggactagat 360
ggcatctctt agccgaggcc aacaggaact gcacaagtcc attatagtca aagttagcaa 420
ttttgatacg taaacacaaat acttcattct tcctcatctg agctttcctt ccttcttcct 480
tttctatctc tacctttctca taaagggtgct gctgctgctg ctaagggtgcc cggagtccag 540
aatgtccatt aatcactcag gcacgagcct ggcactgccg cgtcagcccc cagcatgacc 600
aaacccagggt ttctcttgct tggggctgag aactgtcaga tttttctcat caaaaatggt 660
ttccaaggaa tcagtggatt acagtttttc tgcattgaaa atgcacttn aaaaaataaa 720
ttaaagctcc agactgttta aaatatacag agggagcagg ggaaagttaa gcatgtgcta 780
gtgtctgaac ccagttcagt ttatctccag ttgaaacgat atacactata ttatgtataa 840
atgtatacac acttcctata tgtatccaca tatatatagt gtatatatta tacatgtata 900
ggtgtgtata tgtgcatata tacacacatg cacataacaa aatcagatgc tcattacaaa 960
tccagatgct cattacaâaa ccagatgcta cacaacagc agcagaggaa acaaggttgg 1020
actcttgcaa cagatcacaa aaaataaaaa cagctacttg cagtgacttt ggtcatttct 1080
gtatgttcat aaagaatgga ttgttaacna ggaaaanaag gaccagtgtt agtgaaaagg 1140
gaagatgggg cgaaccatct tgatccgatg cgaatccgta atggtctata tacatttcat 1200

```

cagtantcat ntagtcangt gattgattca gttctgctat gaaacattgt aacacgtacc 1260
cacnactgac aactactcgt gagcgttcat taggagtgac ctaactttgc ntgcctgctc 1320
atgggacgag ctcccttaggt ggagataccg gggaatagag aaagatgcac gtctctgcgt 1380
tgtcgcgtgc tttgaggggc ggtctttacc ttccgtgttg gagtcctccc tgagtcgggc 1440
gctggntgcg ggacacggcc cttctcngtg tcccaggcgc tgcctcatt 1489

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<210> 58

<211> 1283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1250)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1263)

<223> n equals a,t,g, or c

<400> 58

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aggtaatttg aattgagaga gagtaagtga cttgctgnaa aaagggttaa tcaacagcag 60
agctgggatt tgaaccata actctgtcaa agcctccact cctaactcct gttcatgctc 120
ctgtggagaa aatgcttgta gtaacatatt ttaaattgtac taacaagacc agtcatgggm 180
aaatgtttct gagacaaatc tctagtttat gattttaaac agtacgtttt cttacgtgac 240
gaaaacaaaa agtgtgttaa tttgttccca gtggttgaag ttatttgcca acaattttac 300
tgtttctctt catctgttta taggatttct ctgcctcttc caaacttttc ctccctgaac 360
ctgaggggta agcattttat ttcccttttag gaaaaacgct agctgcttgt aaccactgtg 420
tttatgtcaa agcatttcatt ttttttagga tatctgaaaa aatgccatat aagaaaaaam 480
tctataaaac atctatwatt ttcgaaccca agtacactct tgcattctaw gctttaagtt 540

```

```

aaatgcaaan tcctttttcc ttcttcctgc tgcaagtact atctcatcct gatgctcaag 600
agtgtcaggg cctgggtttc caaacagaga ctaccctaaa attatttggc gagtagtact 660
ttacacaatt gcctctcccc cacaaatcat aattgtttca gtaaaatggg tacttggttt 720
ttccaagaaa aaactcgttt ttactcattt ttggcctgtt tgtttattta gaaactaatc 780
tggattcact ccctctgggt gatacccact caaaaaggac acttctgatt aagacgggtg 840
aaactagaga tggacagggt atcaacgaaa cttctcagca tcacgatgac cttgaataaa 900
aattgcacac actcagtgcg gcaatatatt accagcaaga ataaaaaaga aatccatata 960
ttaaagaaac agctttcaag tgcctttctg cagtttttca ggagcgcaag atagatttgg 1020
aataggaata agctctagtt cttaacaacc gacactccta caagatttag aaaaaagttt 1080
acaacataat ctagttttaca gaaaaatctt gtgctagaat actttttaaa aggtattttg 1140
aataaccatta aaactgcttt tttttttcca gcaagtatcc aaccaacttg gttctgcttc 1200
aataaatctt tggaaaaact maaaaaaaaa aaaaaaaaaa mnggggggggn gcccggggtn 1260
ccnccggggg gcccaagttt tac 1283

```

<210> 59

<211> 740

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (696)

<223> n equals a,t,g, or c

<400> 59

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agaaggagcg cggggaggac gtaccttgtg agatgcgagc cggccaacag cttgcaagca 60
tgctccgctg gacccgagcc tggaggctcc cgcgtgaggg actcggcccc cacggcccta 120
gcttcgcgag ggtgcctgtc gcaccagca gcagcagcgg cggccgaggg ggcgccgagc 180
cgaggccgct tccgctttcc tacaggcttc tggacgggga ggcagccctc ccggccgctc 240
tctttttgca cgggctcttc ggcagcaaaa ctaacttcaa ctccatcgcc aagatcttgg 300
cccagcagac aggccgtagg tgctgacggg ggatgctcgt aaccacgggt acagccccca 360
cagcccagac atgagctacg agatcatgag ccaggacctg caggaccttc tgccccagct 420
gggcctggtg ccctgcgtcg tcgttgcca cagcatggga ggaaagacag ccatgctgct 480
ggcactacag aggccagagc tgggtggaac tctcattgct gtagatatca gccagtgga 540
aagcacaggt gtctcccact ttgcaacctg tgtggcagcc atgagggcca tcaacatcgc 600
agataggctt gccccgctcc cgtgcccga aactggcgga tgaacagctc agttctgtca 660
tccaggacat ggccgtgcgg cacacttgct tcaatnaacc tggtagaggt agacgggcgt 720
tttcgtgttg gaggtggaa 740

```

<210> 60

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1211)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1283)

<223> n equals a,t,g, or c

<400> 60

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actttnnccc ctcccccttt cctttcccgt ctcacgcgcc aggccgcttg cacatgcgca 60
ttaggtacaa agcctcgctc tttgtcccca tctgtcgttc acacgaactc aagccttttg 120
cattcggcag ccaatagaat ctaaganatg gcggaaaaat gattccgcct cgggagctaa 180
acttgattgg cagtttagct aaccaatcga gaacgccatt tgtamccctt ggcaggcamc 240
gagctccgtc gtctcgtttc cggcggtcgc gcgctctttt ctcgggacgg gagaggccgt 300
gtagcgtcgc cgttactccg aggagatacc agtcggtaga ggagaagtcg aggttagagg 360
gaactgggag gcactttgct gtctgcaatc gaagttgagg gtgcaaaaat gcagagtaat 420
aaaactttta acttgagaaa gcaaaaccat actccaagaa agcatcatca acatcaccac 480
cagcagcagc accaccagca gcaacagcag cagccgccac caccgccaat acctgcaaat 540
gggcaacagg ccagcagcca aaatgaaggc ttgactattg acctgaagaa ttttagaaaa 600
ccaggagaga agaccttcac ccaacgaagc cgtctttttg tgggaaatct tcctcccgac 660
atcactgagg aagaaatgag gaaactatth gagaaatatg gaaaggcagg cgaagtcttc 720
attcataagg ataaaggatt tggctttatc cgcttggaag cccgaaccct agcggagatt 780
gccaaagtgg agctggacaa tatgccactc cgtggaaagc agctgcgtgt gcgctttgcc 840
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gaagaagcct tttctgtgtt tggccaggta gagagggtcg tagtcattgt ggatgatcga 960
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gagcccatgg accagttaga tgatgaagag ggacttccag agaagctggt tataaaaaac 1140
cagcaatttc acaaggaacg agagcagcca cccagatttg cacagcctgg ctcccttkga 1200
gtatgaatat ngccatgcgc tgggaaggca ctcatgaga tggagaaagc agcctggggg 1260
gacaagaagt gaagactcct gtntccaaa a 1291

```

<210> 61

<211> 971

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (856)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (886)

<223> n equals a,t,g, or c

<400> 61

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ctgcagtacc ggtccggaat tcccgggtcg acccacgcgt ccgggtctgt ggtcctctct 60
cggctcctcg cggctcgcgg cggccgacgg ttcttgggac acctgcttgc ttggcccgtc 120
cggcggtcca gggcttctct gctgcgtcc cggttcgctg gacgggaaga agggctgggc 180
cgtcccgtcc cgtcccatc ggaaccccaa gtgcgcgcgc tgacctgctg cagggcgaga 240
tgagcgcgga cgcagcggcc gggcgccccc tgccccggct ctgctgcctg gagaagggtc 300
cgaacggcta cggcttccac ctgcacgggg agaagggcaa gttgggccag tacatccggc 360
tggtggagcc cggctcgcgg gccgagaagg cggggctgct ggccgggggac cggctgggtg 420
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ccgcactcaa cgcctgctgc ctgctgggtg tcgaccccca gacggacgag cagctgcaga 540
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agccgcccgc cgcgcgcrag gtgcaggggg ctggcaacga aaatrarcct cgcraggccg 660
acaagagcca cccggagcag cgcgagcttc ggctcggct ctgtaccatg aagaagggcc 720
ccagtggcta tggcttcaac ctgcacagcg acaagtccaa gccaggccag ttcattccgt 780
cagtggaccc agactccccg gctgaggctt cagggtccg ggcccaggat cgcattgttg 840
aggtgatgct tctcgnntct ctctctatct gaactgcccc caaccnctgc agattagcag 900
caccttgggg cagccatcat accatcatgg ggtttgatta gcccacgggc attagccaac 960
ctgggaggtt g                                     971

```

<210> 62

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (563)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<400> 62

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ggaccacgc tgcattttca tcgaaagagt gaacatctag tgggactgaa agttctttgt 120
tgtttcagat tgtagagtgt gattgatgga attggtctgt ggaaattgca ttgtttttat 180
ttctttatgt aatcagttta agtaataggg ggtatatata atcgtaagta ttttaggggtg 240
ggaggggcta ttaagtaatt aagtgggtgg ggtagttta aaagttagca tgatatgtat 300
tagataactc tataagtggg catgtgtact tacttgtagt cctttaccct atgattgcta 360
cccttaacga tttcaaataa actcagaggg aactgcaggg agatcaaacc atttagggca 420
aattggacat gaataaaact ctagtgggaa aaagttcaaa ggtgattgaa taaataattt 480
aactttgccc tgggtattaa gtccagggtc cccagattgt ggagcagagc cttggagagt 540
acaggatgaa ggagatagat gcncccttga cttgccggga atgaaattgg attaatgnaa 600

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ggatggtaaa taattcca

618

<210> 63

<211> 1138

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1123)

<223> n equals a,t,g, or c

<400> 63

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 cgctccgatg acttcacccc tctggagatc ctctggacct tctccatcta cctggagtca 120
 gtggccatct tgccgcagct gttcatggtg agcaagaccg gcgaggcgga gaccatcacc 180
 agccactact tgtttgcgct aggcgtttac cgcacgctct atctcttcaa ctggatctgg 240
 cgctaccatt tcgagggctt ctctgacctc atcgccattg tggcaggcct ggtccagaca 300
 gtcctctact gcgatttctt ctacctctat atcaccaaag tcctaaaggg gaagaagtgtg 360
 agtttgccgg catagccccg gtcctctcca tctctctcct cggcagcagc gggaggcaga 420
 ggaaggcggc agaagatgaa gagctttccc atccagggtg gactttttta agaaccacc 480
 tcttgtgctc cccatcccgc ctcccgccgg gtttcagggg gacagtggag gatccaggtc 540
 ttggggagct caggacttgg gctgtttgta gttttttgcc ttttagacaa gaaaaaaaaa 600
 tctttccact cttagtttt tgattctgat gactcgtttt tcttctactc tgtggcccca 660
 atttttataa agtggttttg agtgcctat gggccggggc aggggtccaag atcttttccc 720
 ttccccaggc ccctcggtc cctcccagat cccaccccca gccccactgg ttgccaaaca 780

ctaaatctgc cgacacccat ctgccccacc tcctgccatg gccatgaacc gcgaccccca 840
ctaaatttct agattgggga tagggagaaa gggaggccca ggaaggtctc ccctgatttt 900
ttttcatagt aatttttttc cccagagttt gaattttttg gtcttctcct ggtttttttg 960
caaattaggg gggcccgagg ctcaagtgcg ggaagggggc tggcccgagg atcccatggc 1020
tctcacacca tgtttttgta cagaactgat ggttgaatct ttgttctctt gaaataaaca 1080
gaagaaaatg aaaccttaaa aaaaaaaaaa aaaaaaaaaa acncggggggg gggcccg 1138

<210> 64

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 64

tgctcatcca gaggagctca ccacagtcac tgcgacagac tgccacactc accctggcct 60
ggcctcagag aagttgagct actggcctca gtccacacag agcagatgga ggaagagctg 120
gcactaggac ccagggggca ggggggagcc tccctggctg gaagggatgg caggagcgct 180
ggtgcaggta gctatggagc tctggccaac tctgcctggg gaggtcccag gaaggtggcg 240
tcagcatctg cagccgcgtc gacgttgctg gagcctccgc ggaggaccca ggagagccgg 300
actaggacca gggccctggg cctccccaca ctcccatgg agaagctggc ggcctctaac 360
agagncccaa ngggcttggg cggtcctggg ncgtgaaaat gttcaagtgc ccgattga 418

<210> 65

<211> 2836

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2834)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2836)

<223> n equals a,t,g, or c

<400> 65

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caggtccttc ccctcagtgc ggtcacatac ttccagaaga ggggaccagg gctgctgcca 120
gcacctgcca ctcagagcgc ctctgtcgtc gggacccttc agaactctct ttgctcacia 180
gttaccaaaa aaaaaagagc caacatgttg gtattgctgg ctggtatctt tgggtccac 240
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ggaatactca cattttgtta agaagttgaa ctatgactgg agtaaaccat gtattccctt 2580
atcttttact tttttctgt gacatttatg tctcatgtaa tttgcattac tctggtggat 2640
tgttctagta ctgtattggg cttcttcgtt aatagattat ttcatactat ataattgtaa 2700
```

```

atattttgat acaaatgttt ataactctag ggatataaaa acagattctg attcccttca 2760
ttgtgtgaat gtttttttct aaaaaaatg tggagaaata tggataatta tgacatttat 2820
ccctcattaa agcngn                                     2836

```

<210> 66

<211> 2305

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1973)

<223> n equals a,t,g, or c

<400> 66

```

aaacgttccc ggtccttccct gaaccaagct gtggaccctc gtaagcaacc cggacaccga 60
cgcgctcatc tgctggagcc cgagcgscaa cagcttccac gtgttcgacc agggccagtt 120
tgccaaggag gtgtgcccga agtacttcaa gcacaacaac atggccagct tcgtgcggca 180
gytcaacatg tatggttcc ggaaagtggc ccacatcgag cagggcgkcc tggcaagcc 240
agagagagac gacacggagt tccagcacc atgcttccct cgtggccagg agcagctcct 300
tgagaacatc aagaggaaaag tgaccagtgt gtccaccctg aagagtgaag acataaagat 360
ccgccaggac agcgtcacca agctgctgac ggacgtgcag ctgatgaagg ggaagcagga 420
gtgcatggac tccaagctcc tggccatgaa gcatgagaat gaggctctgt ggcgggaggt 480
ggccagcctt cggcagaagc atgcccagca acagaaagtc gtcaacaagc tcattcagtt 540
cctgatctca ctggtgcagt caaacgggat cctgggggtg aagagaaaga tccccctgat 600
gctgaacgac agtggctcag cacattccat gcccaagtat agccggcagt tctccctgga 660
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tcctgccagc ccatggcct ccccgccgg gagcatagac gagaggcccc tatccagcag 840
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cctgggggaa gacggatgtt gcagctagct ccgtgcctgc ccgactcccc aggaccagca 2100
tgtgcttgca gttctttatt gagggaccag ggggtggcgc ctcaccttgg ccctgggggt 2160

```

```

ctctggttgt cacaggacca ccaggaaccc ccttcccaag gtgttcgcac tcggacaggt 2220
gatgcggggc gggcacactg tctttctgcc agagccagca ccctgtgtag gcacggggaa 2280
cgggagcctg tcccgtagct ttagg                                     2305

```

```

<210> 67
<211> 1907
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1221)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1655)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1896)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1904)
<223> n equals a,t,g, or c

```

```

<400> 67
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tcagcctgaa aatccctgaa attagcatcc aggatatgac agcccagggtg accagcccat 120
cgggcaagac ccatgaggcc gagatcgtgg aaggggagaa ccacacctac tgcattccgt 180
ttgttcccgc tgagatgggc acacacacag tcagcgtgaa gtacaagggc cagcacgtgc 240
ctgggagccc cttccagttc accgtggggc ccttagggga agggggagcc cacaaggccc 300
gagctggggg ccctggcctg gagagagctg aagctggagt gccagccgaa ttcagtattct 360
ggacccggga agctggtgct ggaggcctgg ccattgctgt cgagggcccc agcaaggctg 420
agatctcttt tgaggaccgc aaggacggct cctgtggtgt ggcttatgtg gtccaggagc 480
cagggtgacta cgaagtctca gtcaagttca acgaggaaca cattcccgcac agcccccttcg 540
tgggtgcctgt ggcttctccg tctggcgacg cccgccgcct cactgtttct agccttcagg 600
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gggcgatcga tgccaagggtg cacagcccct caggagccct ggaggagtgc tatgtcacag 720
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ttgacgtcaa gtccaacggc acccacatcc ctggaagccc cttcaagatc cgagttgggg 840
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gtgtcacagg gaacccagct gagttcgtcg tgaacacgag caatgcggga gctggtgccc 960
tgtcggtgac cattgacggc ccctccaagg tgaagatgga ttgccaggag tgccctgagg 1020
gctaccgcgt cacctatacc cccatggcac ctggcagcta cctcatctcc atcaagtacg 1080
gcggccccta ccacattggg ggcagcccct tcaaggccaa agtcacaggc ccccgctctcg 1140
tcagcaacca cagcctccac gagacatcat cagtgtttgt agactctctg accaaggcca 1200
cctgtgcccc ccagcatggg nccccgggtc ctgggcctgc tgacgccagc aaggtggtgg 1260

```

```

ccaagggctg gggctgagca aggcctacgt aggccagaag agcagcttca cagtagactg 1320
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ggagatcctg gtgaagcacg tgggcagccg gctctacagc gtgtcctacc tgctcaagga 1440
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ccgcgtttgt gtgccctgag tctggggccc gtgccagccg gcagccccc aacctgcccc 1560
gctacccaag cagccccgcc ctcttcccc caaccccgcc ccaggccgcc ctggccgccc 1620
gcctgtcact gcagccgccc ctgccctgtg ccgtntctgc ctcacctgcc tccccagcca 1680
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tctttggttc tgggaggggt gagggatggg ggtcctgtac acaaccacc actagtcttc 1800
ttctccagcc aagaggaata aagttttgct tccattcwma aaaaaaaaaa aaaaaaaaaa 1860
tygggggggg kccgktaacc caattggcct ttaagnnggt ggtntta 1907

```

```

<210> 68
<211> 815
<212> DNA
<213> Homo sapiens

```

```

<400> 68
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ataaagaata caagtagcca aatggttttg aaaaaccaaa ttaggtcaaa gttctaaatt 120
aaaaatagca gttgtgtttc aatttacctt attctagcaa ttwaagtwgg taacatacaa 180
atagttatwc tgatacaaga tattaagac atactcagtt ttaatcaact acctctcaag 240
aaacagtagg gcctctgtaa aattggagac tgataggttg atcagaaact caccctaaat 300
ctgaacgggt gccgtataa tttgtgacat ctggcaagat tcccctttat gtatatattt 360
taacaatccg cttggacacg aacaaagcca cacttctaac tgcttctggc gaactgattt 420
tatttttaat ttttttcaat aaagatattc ttagatactg aaagaaatag ttaatgagtt 480
tgcattttgt cttgagaaaa tttggctcaa gtccatttgg ctgtagtgtc aacgatgttt 540
ccagtagtgt ttagatttgg tgtcttcaaa ggtagttgat taaaaccaag tgtgtcttta 600
atatcttgta tcagaataac tttgtatgtt accaacttaa attgctagaa taaggtaaat 660
tgatacacia ctgctatttt taatttagaa ctttgacctt atttgggttt tcaaaacat 720
tttggtact tgtattcttt atgctgttgt ttatttcaat aaaaaattca cacctaaatg 780
tatacttact aaaaaaaaaa aaaaaaaaaa actcg 815

```

```

<210> 69
<211> 1150
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (23)

```


<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1150)

<223> n equals a,t,g, or c

<400> 69

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ctgggtcctc ttgccctggg ctggatgcct tcttcggctc cccctctgca tgtgataact 120
tggggtggcc cttggagctg tgccaaagct acacctcggg gtcctagtct caactggcct 180
gcgtactgct gtgggctcac cccgccttcc tcccacagcc ctgggcgctg cctatggcac 240
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gtccatcatc ccagtggta tggtggcat catcgccatc tacggcctgg tggggcagt 360
cctcatcgcc aactccctga atgacgacat cagcctctac aagagcttcc tccagctggg 420
cgccggcctg agcgtgggca tgagcggcct ggcagccggc tttgccatcg gcatcgtggg 480
ggacgctggc gtgcggggca ccgccagca gcccgcacta ttcgtgggca tgatcctgat 540
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cgtgccgtgg acatctgggc cactcatcg cccctccagg ccccgggcgc cccacccct 840
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tataaagatc tggcctgttc ctgcgtctgc ggagcggccc ttgtctocca gctatctata 960
accttagcta gagtgtcgcc ttgtgggttc ctgtgtctga gacttcctgg atggagccgc 1020
cctcaccgcc gggcccgtgg ccctgcgcgg agctgtgtcc aataaagttc ttggatgtga 1080
aaaaaaaaa aaaaaaaaaa aaaaaaaraa aaaaaaaaaa aaaraaaraa aaaaaawaa 1140
gaaaaaaaaa                                     1150
```

<210> 70

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<400> 70

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cgcaggctct gcggccgggt tccttccgcg ggacggggag aaagagagag cgcgaaagag 60
agaggatgtc tctctcagat tggcacctgg cggatgaagct ggctgaccag ccacttgccc 120
caaagtctat tctccagttg ccagagtcag agctgggtga atactctctg gggggctaca 180
gtatttcatt tctgaaacag ctcattgctg gcaaaactcca ggagtcgggt ccagaccctg 240
agctgattga tctgatatac tgtggccgga agcttaaaga tgaccanacc ttgacttcta 300
cggatttcaa cctggctcca catccatgtt ctncggaant cctg 344
```

<210> 71

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<400> 71

```
tcgacceacg catccgaaga tgttcttgct gccccttcg gctgccgggc gagtcgtcct 60
ccgacgtctg ggcgtgaaca gttctgggca cggggtctcg ccgccgcaga catgacgaag 120
ggtcttggtt taggaatcta tagtaaagac aaagaagatg atgtgccaca gtttacgagt 180
gcaggagaga atttcgataa attggtgtct ggaaagtga gagaaatatt gaacatatct 240
ggacctctc tgaaagcagg caaaaccgga accttttatg gtctgcatga ggacttcccc 300
agcgtggtgg tggtcggcct cggcagaaaag gcagctggag tcgatgacca ggaaaactgg 360
cmtgaaggca aagaaaacat cagagtcgcc atgcaacggg gtgcaggcag gttccaagac 420
ctggnaatct cttctgtgga aggtggat 448
```

<210> 72

<211> 2825

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2093)

<223> n equals a,t,g, or c

<400> 72

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gagaaggagg tcgcgcggcc tcaccccggt ccgcgcccga ggccgcggcc ggccccgcgc 60
tcatgaggtt gctcgcgcgc cccgcgcgat cgccatggat cggatgaaga agatcaaacc 120
gcagctgtca atgacactcc gaggtggccg aggcataagac aagaccaatg gtgcccctga 180
gcagataggc ctggatgaga gtggtggtgg tggcggcagt gaccctggag agggcccccac 240
```

```

acgtgctgct cctggggaac ttcgttctgc acggggccca ctcagctctg caccagagat 300
tgtgcacgag gacttgaaga tgggggtctga tggggagagt gaccaggctt cagccacgtc 360
ctcggatgag gtgcagtctc cagtgagagt gcgtatgcgc aaccatcccc cagcgaagat 420
ctccactgag gacatcaaca agcgccctatc actaccagct gacatccggc tgcctgaggg 480
ctacctggag aagctgaccc tcaatagccc catctttgac aagcccctca gccgccgcct 540
ccgtcgtgtc agcctatctg agattggcct tgggaaactg gagacctaca ttaagctgga 600
caaactgggc gagggtacct atgccaccgt ctacaaaggc aaaagcaagc tcacagacaa 660
ccttgtggca ctcaaggaga tcagactgga acatgaagag ggggcaccct gcaccgccat 720
ccgggaagtg tccctgctca aggacctcaa acacgccaac atcgttacgc tacatgacat 780
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gctgctccgt ggcctggcct actgccaccg gmagaagggt ctacaccgag acctcaagcc 960
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ccctgacatc ctgcttgggt ccacggacta ctccactcag attgacatgt ggggtgtggg 1140
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acagctacac ttcatcttcc gtatcttagg aaccccaact gaggagacgt ggccaggcat 1260
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gagccacgca ccccgacttg atagcgacgg ggccgacctc ctcaccaagc tgttgcagtt 1380
tgagggtcga aatcggatct ccgcagagga tgccatgaaa catccattct tcctcagttc 1440
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cagagacagg gacacagccc ctatttgga cctgatcat caccagaccc tgggattggc 2280
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ggttgtgccc aggtgttgcc ccctatctcc tggggagggg gaggcagggc agggacagtc 2640
tccagggtca gtccctggat ggggtggttac ctcccttcc tcaccctaa gccctggggc 2700
cctgaaatgg ggtgggaggg caggggtggg agccctccta gtgggtttgg ggggttgggt 2760
tcctgaatgc accataatcg ctgtatgaaa tattaataag tctaaagtga aaaaaaaaaa 2820
aaaaa 2825

```

<210> 73

<211> 510

<212> DNA

<213> Homo sapiens

<400> 73

```

atgtacgaga gcgcatccaa agaacctagt agagaaaggt attctaacca ctgagaagca 60
gaatttccts ctatttgaca tgactactca tccagtgacc aatacaacag agaaacagcg 120
actagtgaaa aaacttcaag atagtgtact agagcggtgg gtaaatgacc ctgagcgat 180
ggacaagcga acactagcac tcctgggtgct agcccactcc tctgatgtgc tagagaatgt 240
cttctcctct ctgacagatg acaagtatga tgtggcaatg aatcgagcca aggacttagt 300
agaactggac cctgaagtgg aagggaacaaa gccyagtgcc acagaratga tctgggctgt 360
gctggcagcc tttyaataaa tcytaaagcc rgyrggtggg tttctycttt tcccctgctg 420
gctggtgact gttcagagac mccwcactga gttttgtgtg atgasatgtt ttccatcatt 480
ttttccttyc ttgaatcaga cttgtgaatt 510

```

<210> 74

<211> 458

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (448)

<223> n equals a,t,g, or c

<400> 74

```

gggtcgaccc acgcgtccgc tccacttaaa attcaacttc tgcttggttc atctgattct 60
ttcaaggtct taaatgttaa atgaaggggt aaaataggaa ggtatttaag taattagcag 120
gcctcctggg tcttgataac ttcagtgtt ctgggagctg cccggttggc caccagtctc 180
tgtggaatcc aggggcctct tcccaatatg gatttgacca gcacttcaat tagtgagttt 240
ccatkagcat cttagcatta ctctttaata cagacgcctt attttccagg gtttatgaaa 300
gtttaagtga caaccatgga ttgcaggaa agactgttga gaagctgttt ttccagtgga 360
aaagttgggt ccaggagatg angggagnct tgaaatagat cctgggatgg aaacataaag 420
tggncagcca gattcccatc atgggctncc ccataaaa 458

```

<210> 75

<211> 377

<212> DNA

<213> Homo sapiens

<400> 75

```

gtcctggaaa cacatcaagc tcagctcctg tgtccagctc gcttctctgc tggactcctt 60
gatttttttt ttaatcattg tttgattttg agcagtaacc aggctttttt ttccagatgt 120
tagtccacac ctattcatcc atggaccggc acgatgggtg cccgagccac agctcgcggc 180
tctcccagct gggctcgggtg tcccaaggac cctactcgag cgtcccgcgg ctgtcccaca 240
ccccgtcgtc ggacttccag ccgccctact tcccacccc ctaccagccg ctcccctamc 300
amcagagcca ggaccctac tcccacgtca amgamcccta tccctgaacc cactgcacca 360
gccccagcaa catccct                                     377

```

<210> 76

<211> 2070

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2068)

<223> n equals a,t,g, or c

<400> 76

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tcattgaatgg gaatcctggn cccaagaact ccgcttgcn g cagagggac ctgcagctga 60
ggacctatag cgttgtgccc atgacctnca gtgtatccca gggcaccgcc gtgtgtaata 120
taaagattgg ctgacaaaaa tgtcaggaaa acatgatgtt ggagcttaca tgctaagtga 180
taagggcgct aatcgtactg aaacagtcac gtcttttaga aaacgagaaa gtaaagtgcc 240
tgctgatctc ttaaagcggg ccttcgtgag gatgagtaca agccctgagg ctttcctggc 300
gctccgctcc cacttcgcca gctctcacgc tctgatatgc atcagccact ggatcctcgg 360
gattggagac agacatctga acaactttat ggtggccatg gagactggcg gcgtgatcgg 420
gatcgacttt gggcatgctg ttggatccgc tacacagttt ctgccagtc ctgagttgat 480
gccttttcgg ctaactcgcc agtttatcaa tctgatgtta ccaatgaaag aaacgggcct 540
tatgtacagc atcatggtac acgcactccg ggccttccgc tcagaccctg gcctgctcac 600
caacaccatg gatgtgtttg tcaaggagcc ctcctttgat tggaaaaatt ttgaacagaa 660
aatgctgaaa aaaggagggt catggattca agaaataaat gttgctgaaa aaaattggta 720
ccccgacag aaaatatgtt acgctaagag aaagtttaga ggtgccaatc cagcagtcac 780
tacttgatgat gagctactcc tgggtcatga gaaggccct gccttcagag actatgtggc 840
tgtggcacga ggaagcaaag atcacaacat tcgtgcccga gaaccagaga gtgggctttc 900
agaagagact caagtgaagt gcctgatgga ccaggcaaca gacccaaca tccttggcag 960
aacctgggaa ggatgggagc cctggatgtg aggtctgtgg gagtctgcag atagaaagca 1020

```

```

ttacattggt taaagaatct actatacttt ggttggcagc attccatgag ctgattttcc 1080
tgaaacacta aagagaaatg tcttttgtgc tacagtttcg tagcatgagt tttaatcaag 1140
attatgatga gtaaatgtgt atgggttaaa tcaaagataa gggtatagta acatcaaaga 1200
ttaggtgagg tttatagaaa gatagatata caggcttacc aaagtattaa gtcaagaata 1260
taatattgta tcagctttca aagcatttac aagtgtctgca agttagttaa acagctgtct 1320
ccgtaaatgg aggaaatgtg gggaagcctt ggaatgccct tctggttctg gcacattgga 1380
aagcacactc agaaggcttc atcaccaaga ttttgggaga gtaaagctaa gtatagttga 1440
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cttatattta gaaatgactg catttgatat tttaggatat ttttctaggt tttttccttt 1560
cattttattc tcttctagtt ttgacatttt atgatagatt tgctctctag aaggaaacgt 1620
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gaaatgaatt cctcatttgg aggaaaaaaa gcatgcattc tagcacacaa agatgaaatt 1860
atggaataca aaagtggctc cttcccatgt gcagtccctg tcccccccg ccagtcctcc 1920
acacccaaac tgtttctgat tggcttttag ctttttgttg tttttttttt tccttctaac 1980
acttgtattt ggaggctctt ctgtgatttt gagaagtata ctcttgagtg ttttaataag 2040
tttttttcca aaaaaaaaaa aaaaaaantt 2070

```

<210> 77

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 77

```

ctcgccctcc tgactcttcc tgcaggtggc tcaggaagga ttcagcctgg ccacttggct 60
aggactctgc cagcacccat ctgagactga cctcttccgg gcctttggac actatgacct 120
tgatgtctgc cttcaggcag gaaacagggc tgggtgccttt tttcacctgc atggccagct 180
tccttccctg gcagtggaga gggcagccaa caggttctaa tgtcagagcc atcctttacc 240
agggtggcct gcttgtccct gtcttgccct ccacatcact ctactttttg gaaggccatg 300
gctgattaaa gaagtctctg tagtttccca agcaaagtgg aatctagaaa cagtgaaaaa 360
agttcagata actttgaatt gcattcaaga agtacacttc tttcccatg tccgtggctc 420
ttggagtctc cgtgatgccg ggctagagtc tgattatata ataattcaaa atggtaactc 480
ccaaggtaat gctttcttcc atttcatcag gttcttttat ccccaactgc cccctcccc 540
ttctcccttg cctatctgga tggcttctca gaagctcggc cctagtcctc cctgccttgg 600
cgggggcccag agccactna ctgctgaggc agcactgctc tcgtcagctg tgttgctttt 660
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ctgggtttga tctttagggc ctgactttct gcagagaaga tgttttacag atgtgtcaaa 780
gctgatgtaa tgtggttggg ggaggaaatc cagacccaaa gtgtttgtca gctgggtgta 840
caactgccta tgtgatcctc tgtcttaaaa tgatttctgt ctgtgctgcg aaacaaagac 900
aaggtagagg gtttttcttt tttgtaataa tataaagctg tgtgtttctg attggatgat 960
tcactatgtg cattgttccy cctaagtgct tttagta 997

```

<210> 78

<211> 1333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1254)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 78

```

gagaggagct gctgcgcgcc caggaagcgc cggggcaggc cgagccgccg gccgccgccg 60
aggtgcaggg ggctggcaac gaaaatgagc ctgcgcaggc cgacaagagc caccgcggagc 120
agcgcragct tcggcctcgg ctctgtacca tgaagaaggg cccagtggc tatggcttca 180
acctgcacag cgacaagtcc aagccaggcc agttcatccg gtcagtggac ccagactccc 240
cggtgaggc ttcagggctc cgggccaggc atcgcatgtt ggaggtgaac ggggtctgca 300
tggaggggaa gcagcatggg gacgtggtgt ccgccatcag ggctggcggg gacgagacca 360
agctgctggt ggtggacagg gaaactgacg agttcttcaa gaaatgcaga gtgatcccat 420
ctcaggagca cctgaatggt cccctgcctg tgcccttcac caatggggag atacagaagg 480
agaacagtcg tgaagccctg gcagaggcag ccttgagag cccagggcca gccctggtga 540
gatccgcctc cagtgcacac agcgaggagc tgaattccca agacagcccc ccaaaacagg 600
actccacagc gccctcgtct acctcctcct ccgaccccat cctagacttc aacatctccc 660
tggccatggc caaagagagg gccaccaga aacgcagcag caaacgggccc ccgcagatgg 720
actggagcaa gaaaaacgaa ctcttcagca acctctgagc gccctgctgc caccagtgga 780
ctggcagggc cgagccagca ttccacccca cctttttcct tctccccaat tactccccctg 840
aatcaatgta caaatcagca cccacatccc ctttcttgac aaatgatttt tctagagaac 900
tatgttcttc cctgacttta gggaagggtga atgtgttccc gtcctcccgc agtcagaaaag 960
gagactctgc ctccctcctc ctactgagt gcctcatcct accgggtgtc cctttgccac 1020
cctgcctggg acatcgctgg aacctgcacc atgccaggat catgggacca ggcgagaggg 1080
caccctccct tcctccccc tgtgataaat ggggtccaggg ctgatcaaa aactytgact 1140
gcagaactgc cgytctyagt ggacagggca tytgattatga cagacctktg gcagacacgt 1200
cttgttttca ttgatttttg ttaagagtgc agtattgcag agtctagagg aatntatgtt 1260
tccttgatta acatgatttc ctggttggtta catccanggc aggcagtggc tcagctttaa 1320
atttggtttc cta                                     1333

```

<210> 79

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<400> 79

```

caatggggct gaggtgtgtt ccaactgaggc taagatgact gcctttcctg attggccttg 60
gcttttccat acattgtgtg acccttgccc tatgaccctt tggctgacct taccggaagc 120
catgacgaca gcagcctttt gccattagac gcagggtgat ggtgaggatt ccaagggtta 180

```

```

gacaaaactg gttaatctga actaggtgac tgttaccttg cgtgttttgt ggccaaacca 240
ccacaaaaaa cctcacactg tgatgtaagt acttagtgta aaactagtaa acatttttgt 300
aaaatgtaga aatgcacgta atcagttaag ttttatattt tacaatgttc tgtaaaataa 360
aacttagcga ggtaaatcga ataaaggagc agtcactctc taacagattg taggagaggt 420
ttagttggat ttagtctatt tgacttgccc ttaatttaat tttatggcaa atcacaaatg 480
tgtcgaaggt ttagcaatat aatagcaaag tcctactcca gtaaataaaa gttggtatgt 540
tngtacttaa ctttcaaaag                                     560

```

<210> 80

<211> 3203

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1942)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3201)

<223> n equals a,t,g, or c

<400> 80

```

cggtacgcgt gggtcgcggg cttcgggggt ctgcgctcgc ggctgcctgg actcagcagg 60
cccctggacc atgtcccgcg ccctgcggcc accgctcccg cctctctgct ttttcctttt 120
gttgctggcg gctgccggtg ctcgggccgg gggatacgag acatgcccc aagtgcagcc 180
gaacatgctg aacgtgcacc tgctgcctca cacacatgat gacgtgggct ggctcaaaac 240
cgtggaccag tacttttatg gaatcaagaa tgacatccag cacgccggtg tgcagtacat 300
cctggactcg gtcattctctg ccttgctggc agatcccacc cgtcgcttca tttacgtgga 360
gattgccttc ttctcccgtt ggtggcacca gcagacaaat gccacacagg aagtcgtgcg 420
agaccttggt cgccaggggc gcctggagtt cgccaatggt ggctgggtga tgaacgatga 480
ggcagccacc cactacggtg ccacgtgga ccagatgaca cttgggctgc gctttctgga 540
ggacacattt ggcaatgatg ggcgaccccg tgtggcctgg cacattgacc ctttcggcca 600
ctctcgggag caggcctcgc tgtttgcgca ratgggcttc gacggcttct tctttgggcg 660
ccttgattat caagataagt gggtagcgat gcagaagctg gagatggagc aggtgtggcg 720

```



```

ggccagcacc agcctgaagc ccccgaccgc ggacctcttc actggtgtgc ttcccaatgg 780
ttacaacccg ccaaggaatc tgtgctggga tgtgctgtgt gtcgatcagc cgctggtgga 840
ggaccctcgc agccccgagt acaacgcca ggagctggtc gattacttcc taaatgtggc 900
cactgcccag ggccggtatt accgcaccaa ccacactgtg atgaccatgg gctcggactt 960
ccaatatgag aatgccaaca tgtggttcaa gaaccttgac aagctcatcc rgctggtaaa 1020
tgcgcaaggc aaaaggaagc agtgtccatg ttctctactc caccctcgct tgttacctct 1080
gggagctgaa caaggccaac ctcacctggt cagtgnaaac tgacgacttc ttcccttacg 1140
cggatggccc ccaccagttc tggaccggtt acttttccag tcggccggcc ctcaaacgct 1200
acgagcgccct cagctacaac ttctgcagg tgtgcaacca gctggaggcg ctggtgggccc 1260
tggcgcccaa cgtgggaccc tatggctccg gagacagtgc acccctcaat gaggcgatgg 1320
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gcngctcaga ggcttcaaag atcacttcac cttttgccaa cagctaaaca tcagcatctg 1500
cccgtcagc cagacggcgg cgcgcttcca ggtcatcggt tataatcccc tggggcgga 1560
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tccggagctg ctgttctcag cctcactgcc cgccctgggc ttcagcacct attcagtagc 1740
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gtcccctgct ttaaccatcg aaaatgagca catccgggca acgtttgatc ctgacacagg 1860
gctgttgatg gagattatga acatgaatca gcaactcctg ctgcctgttc gccagacctt 1920
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gacgtctcta cacagacagc aatggccggg agatcctgga gaggagggcg gattatcgac 2280
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cctgttctcc accttcacca tcaccgcct gcaggagacc acgctggtgg ccaaccagct 2880
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ggcctcagtt caatggaagg aggtgatgg ttaggtctgc tgggatgggc cctccaagcc 3060
caagcctcct gtcgggggg cagaccagac tctgactctc ctcttgggct gctgccatta 3120
aaacgtact actaagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3180
aaatttanaa aaaaaaaaaa naa 3203

```

<210> 81

<211> 1710

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1424)

<223> n equals a,t,g, or c

<400> 81

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aagagccgaa cggataagag aagaggaggg cgcgkatggc gtcggggcgc cccgaggagc 60
tgtgggaggg cgtggtgggg gccgctgagc gcttccgggc ccggactggc acggagctgg 120
tgctgctgac cgcggccccc ccgcaccacc ccgccggggc ccctgtgcct atgctgccc 180
tggtcgagga gccctggcgg aggcagcgcg ccgttgccct caccacatcg cactggcccc 240
cagggctgcc actgctgctc ggctccctgc gccccacca gcaccacagc caccagtc 300
cacaccagc ccaccccggc ctacctggc cagagaggac aacgaggagg acgaggatga 360
gcccacagag acagagacct ccggggagca gctgggcatt agtgataatg gagggctctt 420
tgtgatggat gaggacgcca ccctccagga ccttcccccc ttctgtgagt cagaccccg 480
gagtacagat gatggcagcc tgagcgagga gaccccgcc ggcccccca cctgctcagt 540
gccccagcc tcagccctac ccacacagca gtacgccaag tccctgcctg tgtctgtgcc 600
cgtytggggc ttcaaggaga agaggacaga ggcgcggtca tcagatgagg agaatggg 660
gcctctctcg cccgacctgg accgcatcgc ggcgagcatg cgcgcgctgg tgctgcgaga 720
ggccgaggac acccaggtct tcggggacct gccacggccg cggtttaaca ccagcgactt 780
ccagaagctg aagcggaaat attgaagtcc agggaggagg cgcgccgggc cgcgtccgcc 840
ccgtcccaca ctacgcccc gccccactcc cggggcctgc taatctgagg ccgatccggg 900
accggcctcc ttgcgtctcc cattcccaag attgtcccgc ctctgccaat ccccgccgtc 960
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taagctctaa atgggtcaac tcctttgttt tccgcctagc gacaagggat ttgctcgac 1140
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cttggtccct gacccctca gggatggccc caaactgtcc ctgncctctg caccctctt 1440
cattggttcc atccatcccc acaacagcct gccaatcgaa gcccgctcct gcacccagga 1500
tggtaccagc tcccgccct cgccccccac ctccacaggt gccttaaagg gccctcgtca 1560
cccaaggtgg gggcaggggc ctcactctc cggccctggt gtgggggaga gagtgagggg 1620
ttgggggatc ggagttggg aggggcgctc tgagattaaa gagttttacc tctgagataa 1680
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1710
```

<210> 82

<211> 1379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1378)

<223> n equals a,t,g, or c

<400> 82

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aattcggcag agctgagccc cgggctgtgc agtccgacgc cgactgaggc acgagcgggt 60
gacgctgggc ctgcagcgcg gagcagaaag cagaacccgc agagtccctcc ctgctgctgt 120
gtggacgaca cgtgggcaca ggcagaagtg ggccctgtga ccagctgcac tggtttcgtg 180
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```

<210> 83

<211> 678

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (626)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (648)

<223> n equals a,t,g, or c

<400> 83

```

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cttgtgtgcc tgggtgcggga gctacggggc ccagggattg tgtttaaagt agtgcttcta 120
ccaacatgtc ccgtggttcc agcgcgggtt ttgaccgcca cattaccatt ttttcacccg 180

```

```

agggtcggct ctaccaagta gaatatgctt ttaaggctat taaccagggt ggccttacat 240
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aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attggttggtg 360
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ctaactggaa atacaagtat ggctatgaga ttcctgtgga catgctgtgt aaaagaattg 480
ccgatatttc tcagggtctac acacagaatg ctgaaatgag gcctcttggt tgttgatga 540
ttttaattgg tatagatgaa gagcaaggcc ctcagggtata taagtgtgat cctgcagggt 600
antactgtgg ggtttaaagc cactgnagcg ggagttaaac aaactggngt caaccagctt 660
ccttgaaaaa aaagtgga                                     678

```

<210> 84

<211> 2803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1926)

<223> n equals a,t,g, or c

<400> 84

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tgaccatctt cacacagttg gctctccag aggtgcctat tcatccaaca gggcaagggc 300
tgtcagcaga gtccgtcaga cgtgagaagg gtgggagcgg cggactgtga acgctggtag 360
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cttccgggtg catagctgtg ggatccggaa gtaaaaacac aagccccgcs cccrrgaact 480
cgggaagccg gcgakaagtg tgaggccgcg gtagggncgc atcccgtcc ggagagaagt 540
ctgagtcgag cagctctgca ggcccgcgga antcgacagc gtcatggcag agcagggtggc 600

```

```

cctgagccgg acccaggtgt gcgggaccc cggggaagag cttttccagg gcgatgcctt 660
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gaagatctac ccaccatctt ggtggctgtt ccgggatggc cttctgcccg aaaacacctt 780
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aag 2803

```

<210> 85

<211> 1278

<212> DNA

<213> Homo sapiens

<400> 85

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atctttgtgc attgggggcca cctatgacgt cacagactcc cgcacacccc atcagattgt 180
cgaccggcct gggcagcaga cctcagtcac tggcaggtgc tacgtgcagc cccagtrggt 240
gtttgactca gtgaacgcca ggctccttct ccccgctggc gagtacttct ctgggggtgca 300
gctgccccca cacctttcac cctttgtgac cgagaaggaa ggagattacg ttccacctga 360
gaagctgaag ctgctggctc tgcagcgggg agaggaccca ggaaacctga atgagtcaga 420

```

```

agaggaggag gaagaggacg acaacaacga aggtgatggt gatgaagagg gagaaaatga 480
ggaggaggag gaagatgcag aggctggttc agaaaaggag gaagaggccc ggctggcagc 540
cctggaagag cagaggatgg aggggaagaa gcccagggtg atggcaggca ccttgaagct 600
ggaggataag cagcggctgg cccaggagga ggagagttag gccaaagcgc tggccattat 660
gatgatgaag aagcgggaga agtacctgta ccagaagatc atgtttggca agaggcgaag 720
aatccgagag gccacaagc tggcggagaa gcggaaagcc cacgatgagg cggtagagtc 780
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cacacagttag gacccgtgat tctcaggtg ctgtgatggg gtgagggtag ggggagcatt 1200
tgttattaaa tgactggact tttgtgcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaccca cgcgtccg                                     1278

```

<210> 86

<211> 2585

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2573)

<223> n equals a,t,g, or c

<400> 86

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cagcattaca agccaaagcc tcaatccagg gccctttcgt actcctaaag caggagataag 180
gacctatcac ttccgctcca ccttgggcca gttccagggt ataatgggca ggaagagagg 240
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gtcagagtca actgcaccaa tccaggcacc agatattgct ggatgagtag tgggctctac 600
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aagatacaga ttggctgcca cacagatgac ctgaccaggg ccagcaagct tttccgaggc 720
ccactcgtaa ttaaccggtg ctgcttgga aaaccacaa aatcgatcac gtgcctctgg 780
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```

```

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```

<210> 87

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 87

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ttttatatatt caactaaaag tatcaaaata tagctttcca gaaaaccccg aaccaaagtc 120
actgactaca tcaaagtcta ctacaccttg agaaaacaaa tgaacgaaaa tctattttcc 180
tcattcatta cccaacaat aataggactc cctatcgtaa ttattatcac tatgtttcca 240
agcattatat tcccatcacc taccgactr aatcaataat cgactscatc tccattccaa 300
caatgattag tgcactgaac atscaaaaca aatrttgatc catgccacaa ccaaaaagga 360
caaactggag cccgatatt gatan

```

385

<210> 88

<211> 2500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (429)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (1088)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2497)
<223> n equals a,t,g, or c

<400> 88
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gccctgctgg tggagacca gatgaaaaag ttggagatca aacttcggca ctttgaggag 180
ctggagacta tcatggaccg ggagcragaa gcactggagt atcagaggca gcagctcctg 240
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cagcacttcc aacagatgca ccaacagcag cagcagccac caccagccct gcccccaggc 360
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ggagccccc agcctggggc agtcccacca ggggttcccc ccctggacc ccatggcccc 600
tcaccgttcc ccaaccaaca aactcctccc tcaatgatgc caggggcagt gccaggcagc 660
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```

attaagattc cagggagagc tctggggata gaacagggcg cagattccat ctctcccca 1620
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attcgagttc attcgacta ataatccctc ctgcggcttc ctcatgttg ctgttttagg 1740
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```

<210> 89

<211> 1409

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (841)

<223> n equals a,t,g, or c

<400> 89

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catcgatgag gctggccact gcatggagcc tgagaagtct ggtagctata gcagggtga 180
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tgaagacaca gcaccagcc ttctgcacc agccaagcct taactgcctg cctgaccctg 1260
aaccagaacc cagctgaact gccctccaa gggacaggaa ggctggggga gggagtttac 1320
aaccgaagcc attycaccck cctccctgct ggggagaatg acacatcaag ctgctaacaa 1380

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1409

<210> 90

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1333)

<223> n equals a,t,g, or c

<400> 90

agaacagtac ctccctctca ctgaggaaga actagaaaaa gaagcaaana aagttgaagg 60
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tcaactccgt gcctaccagc aggtctctag cagggttaaa gaagctaagc aaaaaagcca 180
acagaccatt tctcagctcc attctactgt tcacctgatt gaatttgcca ggaagaatgt 240
gtatagtgcc aatcagaaaa ttcaggatgc tcaggataag ctctacctct catgggtaga 300
gtggaagagg agcattggat atgatgatac tgatgagtc cactgtgctg agcacattga 360
gtcacgtact cttgcaattg cccgcaacct gactcagcag ctccagacca cgtgccacac 420
cctcctgtcc aacatccaag gtgtaccaca gaacatccaa gatcaagcca agcacatggg 480
gggtgatggca ggcgacatct actcagtgtt ccgcaatgct gcctccttta aagaagtgtc 540
tgacagcctc ctcaacttcta gcaaggggca gctgcagaaa atgaaggaat ctttagatga 600
cgtgatggat tatcttggtta acaacacgcc cctcaactgg ctggtaggtc ccttttatcc 660
tcagctgact gagtctcaga atgctcagga ccaagggtgca gagatggaca agagcagcca 720
ggagaccagc cgatctgagc ataaaactca ttaaacctgc ccctatcact agtgcatgct 780
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cctttgaatt caataaaatt cactgcagga tagaccagtt aaaaaaaaaa aaaaaaaaaa 1260
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gacgtccaaa gcnc 1336

<210> 91
<211> 787
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (677)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (725)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (742)
<223> n equals a,t,g, or c

<400> 91
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cgcagatcca gctacctctg ttagccgccc gaagtacaag ttgcagaagc agcttgatag 180
cctcacagcc aggaccccat cagaagggga ggcagggact cagaggcaac aaaagctttc 240
ttccctccag ctggaattgt caaaactgga caaggcagcc tctcacctcc rgcagctgat 300
ggatgagcct ccagccccag ggagcccgga gctctaactc atcatcccca tcagttttcc 360
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cgtcagagac tatgtgtgtcc atcgccttca ttgtgtaaag gaggacacag actggcttgg 480
tcgcagtgc tgtgtgtgtcc ttgagatgct cacattactg cccggcctgc ctcccacctg 540
gaagtctggg aatgaggaga ttgagataaa cttttgaaat cccaaacatg tctgtttatg 600
gctctttggt cccctttgct cccagtgggt acttttgtgc ttctgagttg tcccctgaga 660
gcttggtctg ggaaaaanagg aaggaagggg tcctcactgg aggaagagga acctttctaa 720
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acaagtg 787

<210> 92
<211> 1657
<212> DNA
<213> Homo sapiens

<400> 92
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ggcgtcttg ttccagagga ggcccaggag gaggggtcag gccctttgta ccacatatcc 180
catttgactt ctatttgtgt gaaatggcct tccccgggt caagccagca cctgatgaaa 240
cttccttcag tgaggccttg ctgaagagga atcaggacct ggctcccaat tctgctgaac 300
aggcatctat cctttctctg gtgacaaaaa taaacaatgt gattgataat ctgattgtgg 360
ctccagggac atttgaagtg caaattgaag aagttcgaca ggtgggatcc tataaaaagg 420
ggacaatgac tacaggacac aatgtggctg acctggtggt gatactcaag attctgccaa 480

```

cgttggaagc tgttgctgcc ctggggaaca aagtcgtgga aagcctaaga gcacaggatc 540
cttctgaagt ttttaaccatg ctgaccaacg aaactggcct tgaaatcagt tcttctgatg 600
ctacagtga gattctcatt acaacagtgc cacccaatct tcgaaaactg gatccagaac 660
tccatttgga tatcaaaagta ttgcagagtg ccttagcagc catccgacat gcccgctggt 720
tcgaggaaaa tgcttctcag tccacagtta aagttctcat cagactactg aaggacttga 780
ggattcgttt tcctggcttt gagcccctca caccctggat ccttgacctg ctaggccatt 840
atgctgtgat gaacaacccc accagacagc ctttggccct aaacgttgca tacaggcgct 900
gcttgcatg tctggctgca ggactgttcc tgccagggtc agtgggtatc actgaccctt 960
gtgagagtgg caactttaga gtacacacag tcatgaccct agaacagcag gacatggtct 1020
gctatacagc tcagactctc gtccgaatcc tctcacatgg tggctttagg aagatccttg 1080
gccaggaggg tgatgccagc tatcttgctt ctgaaatata tacctgggat ggagtgatag 1140
taacaccttc agaaaaggct tatgagaagc caccagagaa gaaggaaagg gaggaagaag 1200
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gacattccct tcaactcctt tcctacccaa gggggaagac tggagcctaa gctgcctgct 1320
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ataatctcca actcctgaaa acccctctct caactaatac ttgtctgttg aaatgttgtg 1560
aaatgttaag tgtctggaaa ttttttttct taagaaaaac tattaagata cttcctagta 1620
ggaaaaaaaa aaaaaaaaaa aaacycgggg gttttctt 1657

```

<210> 93

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<400> 93

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aattcggcac gaggggttct gcactaacag cctccaagcc ccctggcact tcttttgccc 60
tgagagtgtc ccaggggatt cagagtctcc agaaagatat ggctrggcca actctgttgc 120
ctacctrgcc tgaccagtc ggagcctgac atggtggagg gaaagggaga caagtggggc 180
tgactcgggt ccagaggcca gctaggaggg aaaccgcagc ttcctggggc ttgtgtgtga 240
agattcctga cttaggggtg gcttttgttt acaagatgca agaggggaaa cctgtccccg 300
actcatcgag acaacatgcc cagttatcag ggagtcctgt gtcacaaggt ctgtctctgc 360
cattgtaagc aagtgccttg ggcgagctgg cctctgcccc acagtctcat ctgtacaccg 420
acagggttga tgcctccctc acagggttga gaacaagagc cakttggcc attaaaaana 480
aaaaan 485

```

<210> 94

<211> 764

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<400> 94

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ccccagccag tctgccctct gccatggggg gcggagagga cgaggaggag gccaccgact 60
atggaggggac ctcaagtccg actgccggg aggccgtgcg ggggctagaa acagctctgc 120
grtggttgga gaaccaggac ccagagagg tggggccact gaggctggtg cagttgcgct 180
cactcatcag catggcccgg angctgggg gcacgaggca taccacagca ggcccctatg 240
acgggtgtgtg accaggccas ccagtgacc tttctcctgc tgcacttga gggaggggac 300
atacacacag tctcccatct ctctcccct cccctgggg tggcccaccg catgggtaca 360
gggggttcca ggaatccaaa tccagcatgg cttggaggag ctctgttgg gagaggctcg 420
cctgcctcac tggcaccctg ggggcacagc tggaagagag gcctggccca tgctcctctc 480
agggcaggca catgtacggg gcatacaagg cacagcgct gttggaacag gtggctgtgt 540
tcctgctctg gcccccgctg ggctngcctc cgcccctgca ccagtcacat gcactggacg 600
agggccgaaa ctctgtctg ctatcgagcc ctggtgctat gtggccccgg agccacagca 660
caatcatctc agtggcgaa caccacctt gattctatct ttttttaaca cattaaatct 720
gtttttaaag ataaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 764

```

<210> 95

<211> 707

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<400> 95

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atttaggtga cactatagaa ggtacgcctg caggtaccgt tccgnaattc ccgggtcgac 60
ccacgcgtgc catcatggcg caggatcaag gtgaaaagga gaaccccatg cgggaacttc 120
gcacccgcaa actctgtctc aacatctgtg ttggggagag tggagacaga ctgacgcgag 180
cagccaaggt gttggagcag ctacagggc agaccctgt gttttccaaa gctagataca 240
ctgtcagatc ctttggcatc cggagaaatg aaaagattgc tgtccactgc acagttcgag 300
gggccaaggc agaagaaatc ttggagaagg gtctaaagg gcgggagtat gagttaagaa 360
aaaacaactt ctacagatac ggaactttg gttttgggat ccaggaacac atcgatctgg 420
gtatcaaata tgacccaagc attggtatct acggcctgga cttctatgtg gtgctgggta 480
ggccagggtt cagcatcgca gacaagaagc gcaggacagg ctgcattggg gccaaacaca 540
gaatcagcaa agaggaggcc atgcgctggt tccagcagaa gtatgatggg atcatccttc 600
ctggcaataa aattcccgtt tctatccaaa agagcaataa aaagttttca gtgaaaaaaa 660
aaaaaaaaa aaaaaaaggg ggcccccttt tgggggtccc ctggggg 707

```

<210> 96

<211> 815
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (16)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (50)
 <223> n equals a,t,g, or c

<400> 96
 aacccccctac tccctnccgt aatttttgta agcccttaaa ataanaaatn aaaaatycca 60
 taaccccccaa agaagaatcc cccccacatt waggcttggt aagtaaatgc ctcctgacct 120
 caagcccga gattgcccc attctctwag tgatggcggc gttagggttt gagagaagg 180
 aatttggtc aacttcagtt gagagggtgc agtccagaca gcttgactgc ttttaaata 240
 ccaaagatga cctgtggtta gcaacctggg catcttagga agcagtcctt ggagaaggca 300
 tgttcccaga aaggtctctg gagggacaaa ctactcagt aaaacataat gtatcatcat 360
 gaagaaaact gattctctat gacatgaaat gaaaatttta atgcattgtt ataattacta 420
 atgtacgctg ctgcaggaca ttaataaagt tgctttttta ggctacagtg tctcgatgcc 480
 ataatcagaa cacacttttt ttcctctttc tcccagcttc aaatgcaaat tcatcattgg 540
 gctcacttct aataactgca gtgtttcccg ccttgggctt gcagcagaaa aacctgacaa 600
 catagtgttt gctaaggcag taatttagac ttaccttat ttgtgattac tgtagtgatt 660
 gattgattga ttactattaa ctacaaggta taatttacta tcaccttatt taaattttat 720
 gaattaattt gaatgttttt tacactaact aacttttccc aataaagtcc actatgaaac 780
 caccgacaaa aaaaaaaaaa aaaaaaaaaa aaaaa 815

<210> 97
 <211> 658
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (627)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (634)
 <223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 97

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catcattggc gcggggctgt cagcggccgg acgcggtcct ctacgcccgc cactacaaca 60
tcccgggtgat ccatgccttc cgccggggccg tggacgaccc tggcctggtg ttcaaccagc 120
tgcccaagat gctgtacccc gagtaccaca aggtgcacca gatgatgcgg gagcagtcca 180
tcctgtcgcc cagcccctat gagggttacc gcagcctccc caggcaccag ctgctgtgct 240
tcaaggaaga ctgccaggcc gtgttccagg acctcgaggg tgtcgagaag gtgtttgggg 300
tctccctggt gctggtcctc atcggctccc accccgacct ctccttcctg cctggggcag 360
gggctgactt tgcagtggat cctgaccagc cgctgagcgc caagaggaac cccattgacg 420
tggacccctt cacctaccag agcaccgcgc agraggccct gtacgccatg gggccgytgg 480
ccggggacaa cttcgtgagg ttgtgacagg ggggcgcctt ggctgtkgcc agctccctgc 540
taaggaagga acagaaccac ctacatcgcc aaccctggtc cagcctraga ggaatacatc 600
ctctgatcga cctcaaatcc ggagttncce cttnncttgt caaattgacc gcccaata 658
```

<210> 98

<211> 249

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<400> 98

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aaaatggtag acctgacagt accgggtccgg caattcccgg gatattgagc tggggttttg 60
agactscctt tagagataga gaaacagacc caagaaatgt gctcaattgc aatgggccac 120
atacctagat ctccagatgt catttcccct ctcttatttt aagtattgtt aagattacta 180
aaacaataaa agctcctaaa aaatcaaaaa aaaaaaaaaa aaaaaaaaaa aaccccgggg 240
ggggcccng 249
```

<210> 99

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 99

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acggcttcaa ccgagcttc tgcggccgca acgccacggt ctacgggaag ggcgtgtatt 60
tcgccaggcg cgctccctg tcggtgcagg accgctactc gcccccaac gccgatggcc 120
ataaggcggg gtctgtggca cgggtgctga ctggcgacta cgggcagggc cgccgcggtc 180
tgcgggcgcc ccctctgcgg ggtcctggcc acgtgctcct gcgctacgac agcgccgtgg 240
actgcactct ccagcccagc atcttcgtca tcttccacga caccagggcg ctgcccaccc 300
acctcatcac ctgcgargca cgtgccccgc gcttcccccg acgacccctc tggretcccc 360
```

```
ggccgctccc cagacactta accgaagggg ccaccctctg gcctcctgct tcccaggtc 420
ccagctccgc acaggtgat gctccccgcc cccaactgtg gccgcctgag ctgtccccgg 480
ggasgccctg cctccctctg cgggctccag aaggcgggtg gggggatggc ggtcagcagc 540
ggccgagggg ggccgggcta ggtcccagcc tgggccgacc ccaccaccag gggtcagcag 600
agcccaggag gngacaccgy ccgccgcgcg ctcccagacc tcgcccagat cggctctgtt 660
gtttgaataa acgtgaacgt gaaccaggc ggaagggacc cgggaaaaaa aaaaaaaaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 752
```

<210> 100

<211> 3059

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3019)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3047)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3058)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3059)

<223> n equals a,t,g, or c

<400> 100

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ggggtaaaac ccngaaaaa aactccanat tttaattaaa tggcctcctc ccttcccccc 60
ttctttcccc cgtccccca actcccttct ctcgtcctct tccccccnc cctctccct 120
```



```

tttctcccca tctttcacct tcctaatttc agtgaaattg gagcgatttg aaattccaat 180
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caaaactgaaa aggaaggagc tgaggaacca ttacctcaaa gacattgaac gaatgtatgg 300
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aacctctaga attttaagcc tttgttgaac tgttagaatg taaggatat cattctaaag 420
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tttgcagctt ccaatgcctc ttgtcttcct atttcagaag tttaaatatt aagcatgaca 720
gaaaatatgt attaacacta ctcaaagcaa aagtgtctga gggcttttaa attctcttcc 780
aaccattttat cttgaaggaa aaattcaata gtaataataat acmcaaaatc aaataatacc 840
ttagaaggta ttaagattat aattgttgca taggttagat atagagtcac tgtaatgttg 900
tgaataatta cagtgcctaa aataagaata gaacaacata tacaacacca aaaaatatct 960
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cacagcactg aacctgggaa agagatttaa actctgaatt tatctttgat aacagggtat 1260
gatttttaaaa tgtacatgta ttaaattaca tttgtaattt aaggtctgtt tgctgttgct 1320
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tggtggtaat aagggaataa tcaagtatta taaacaagaa tgaaggtttt tgtaaagatt 1920
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ccccttgatt ttccatctaa aaatatacat gtttatgtaa acaaatcttt ccatatccat 2400
agtgactttt caagtattta agcctaaaga ttttgatctc acatttttat acctgtttta 2460
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aatgtttcta aggtaacaag atgagaacag ataaagattg tgtgtgtgtt tggatttgga 2820
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ttgtttgttc ttgtttttta gtttgcactc aaatcttaag aaataaatcc acccatgtta 3000
tcaaaaaaaa aaaaaaaanc ccgggggggg gcccgggaac aaatccnccc aaggggggnn 3059

```

<211> 1682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 101

```
ggcacgagga tggawgcctg atgggggtgca gacacagatg gcaccccagg rntgtgccat 60
tccaccagac gtctcctaag acagagtttag agtcaacaat ctttggcagt ccgaggctgg 120
ctagtgggct cttcccagag tggcagagct gggggagaat ggagaacttg gcctcttatt 180
gatgaattaa gcaacaatgt aactgggtctt gacttgtcat attcccccat gcaatcctag 240
gtctgtattg ctcaatttta ggaagccttt gctactccat cagtaggttt agatttgagc 300
ttttgagacc tggctatgga aaagaaagac acttgagaat ttagtggttg ggtctgtaca 360
gatgatgcta cccaatttggt ctttgaagga tcaagtaaca ggttgaaaac tatttttata 420
aaggtaatac tttttcagtt cccttcttcc ttccctctca atccactagc tttcatgttg 480
ggcaaggaaa agttgaggaa ggatggctga tggatgatga aagctgtgtt aatgggatga 540
ggaatgtgtg aaaagtatac acaaagggtt ctgaagctca agtcagagga gtgggaggtc 600
tgatcattgt tgggtgaaaa acgtaagggtt attttgtgtt ttttaagttg ttttacaatt 660
ctttcctggg gaaatttatt ctggagggga aaaagatcca ttctacgtat ccttgtggag 720
aaaagctaaa taacctttaa gaatgtgggt ggtattggag aaagaagatg aattatagct 780
ccggagaatc aagatcttaa gtgaagcctt tctgttcaga tgtgatctat aaaaaatcat 840
aatttgggga aagttaagc aaatctggct ttgtagtctt gatgttataa gtgactttgt 900
gatcaaatct tcaggcttgg gttcttggtt tagaatgctt ggtatagaaa aaccatgcca 960
tcattaatgg ctaacaacac gtagggactt catgtcatgt caaagatagc tctttgcaag 1020
tgccttgatt aaaccagaaa actgtcatcg ttttaaccaa atatctgaat ggtcatctgg 1080
taactcatgg gtttttggtc tcataagatg gtccactctg tacacaggca ttcctcctgc 1140
aataatgttg tatctttgag accgttgtca gtgtacacaa ctcacatcct tcatattgaa 1200
ggtgactcat tttctgcac acttttttga tgtgatgctt gacgtgaggc ccgacactag 1260
gattctcaat gcaagaatcc agtaccttgc acatagaagt agcaacccat cccttgccca 1320
ttttcatctt gctgttttct tttttttaa aaaatggatg tgacttgttt tgaatgtttt 1380
gtattatact tgtttttgtg tgtgcataaa ttcattctgt aggatcttaa gaaaaagagt 1440
cccagaatgt tgcttctatt attgtgcaca accattgaga ggtgttataa gaatgcagtt 1500
aattttaaca tgtgtgatgt gccatggtgg aaaagtacta tcggaataac tctgcagtga 1560
cagaatttga agtttggtga gcatccatac ttttctactg taaatatttc actctcctct 1620
agctatcctt gatgagcttc tcactttaag aataaatgtg tttgatataa aaaaaaaaaa 1680
aa 1682
```

<210> 102

<211> 938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (913)

<223> n equals a,t,g, or c

<400> 102

```
cccacgcgct cgtccgggtg ctcgcgcgcn gacctggacg cagagaagcc agagactttc 60
gcttccggct gccgcaggct tcgctggtgc aggtaagctc cgcacactct cggccgggtcc 120
cgagtccgac tccctcaagg gtgacgcgag ctctgccctt taaccggaaa cgtctccctg 180
ctcaccacac ccccgcgag acgcagtgtg gagcacacag ctaccggaca aagagtgtac 240
cccgagctg gagttatggc ggctacggag ccgatcttgg cggccactgg ggtcccgcg 300
gcggtgccac cggagaaact ggaaggagcc ggttcgagct cagcccctga gcgtaactgt 360
gtgggtccct cgtgccaga ggcctcaccg cctgcccctg agccttcag tcccaacgcc 420
gcggtccctg aagccatccc tacgccccga gctgcggcct ccgcgccctt ggagctgcct 480
ctcgggcccg caccgtgag cgtagscctc aggccgaagc tgaagcgcgc tccacaccag 540
gccccgccgg ctctagactc ggtcccagga cgttccgcca gcgtttccgg cagtcccgct 600
accaggatgc ggcgggtccc cgggaggctt tccggcagct kcgggagctg tcccgccagt 660
ggctgcggcc tgacatccgc accaaggagc agatcgtgga gatgctggtg caagagcagc 720
tgctcgccat cctkcccag ggcgtcggg cccggcgat ccgccgcgc acggatgtgc 780
gcatcactgg ctgagcgtg gagctcggg cngccagggc cgggcgctct gtgcggactg 840
gggccatgat cgggcccggg ggcctgagcc tgggaccca cccgtgtta atgaaaaatg 900
agttttgga gcnaaaaaa aaaaaaaaaa aagggcgg 938
```

<210> 103

<211> 2012

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1993)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2002)

<223> n equals a,t,g, or c

<400> 103

```
gctggataat tccagcctgt tagctactca caggaacatg cagaattatt ggctccaggg 60
agttttgag aaagaagggt tacgttttca aacttacaga taacagttga catcaatgct 120
tctctttccc agaacaatct ggagtttgcc agaaaactct gtaaacagga gtcgtgctgt 180
gtgtgaactg taaactcttc tctccaggcg tcgaggggac ctttgcttta ctttgagct 240
gggctacatc agacgtgtgc attggaaaca taaacttctt taactgggaa aagaatgctt 300
ctctgtcttc maaatarctt tgctatgtga ctttttggc atcatgaatt ttacatcagt 360
gmtagctctt tgttttacgt gtttcattkg gcaggtcaca aaggctcttg gctaccacac 420
atacgtgcat acacacacac acacacacac acacacacac acacactcat aaaggatttt 480
```

```

cttttctgct ttaccttta ttttcagtct acttggcttg taatgaaagg tagagcctta 540
tttttgaact atatcccaac agaatcgaat ttccattttg ccaagaatta taaaaccctg 600
aggtttttaa attcagtttc ttttctgggg atttaacatg gaaggacttg gagggcaaat 660
ggscagtgat ttggaaaargg gaaaaacaaw tcatttcatt taaaattatt caataacccat 720
tgccagcatt tgggattctg agtgctgttt atgaagccct ttcattgata taatttcac 780
tatctctcac aaggctgtaa gcaattccta tgtccatag gcagtggagg aatggagatt 840
tgagcagggt aaggagggtt tcacctggaa gctcttcttt ttttcccttc tgccacagta 900
rggtcatcag actgtcagcc ccagcactgg gagccgagta acacgcatgt tctcattaat 960
atccttttct catgttttta ttaaagatat atgcaagttg ccgaaagacg aaggaacttg 1020
cagggatttc atattaaaat ggtactatga tccaaacacc aaaagctgtg caagattctg 1080
gtatggaggt tgtggtggaa acgaaaacaa atttgatca cagaaagaat gtgaaaagg 1140
ttgcgctcct gtgctcgcca aaccggagt catcagtgtg atgggaacct aagcgtgggt 1200
ggccaacatc atatacctct tgaagaagaa ggagtcagcc atcgccaact tgtctctgta 1260
gaagctccgg gtgtagattc ccttgcactg tatcatttca tgctttgatt tacactcgaa 1320
ctcgggaggg aacatcctgc tgcagacct atcagtatgg tgctaattgt tctgtggacc 1380
ctcgtctctc gtctccaggc agttctctcg aatactttga atgttggtga acagtttagc 1440
actgctggtg tttatgtgaa cattcctatc aatccaaatt ccctctggag tttcatgtta 1500
tgccgtgtgc aggcaaatgt aaagtctaga aaataatgca aatgtcacgg ctactctata 1560
tacttttgct tggttcattt ttttccctt ttagttaagc atgactttag atgggaagcc 1620
tgtgtatcgt ggagaaacaa gagaccaact ttttcattcc ctgcccccaa tttccagac 1680
tagattttcaa gctaattttc ttttctgaa gcctctaaca aatgatctag ttcagaagga 1740
agcaaaatcc cttaatctat gtgcaccgtt gggaccaatg ccttaattaa agaattttaa 1800
aaagttgtaa tagagaatat ttttggcatt cctctaattg tgtgtgtttt tttttttgt 1860
gtgctggagg gaggggattt aattttaatt ttaaaatgtt taggaaattt atacaaagaa 1920
actttttaat aaagtatatt gaaagttaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aanaaaaaaa anaataaaaa aa 2012

```

<210> 104

<211> 1094

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<400> 104

```

tcctcctggg aagcctggcc tgcctncccc gcaaaagggtg tttttgcgct ggttcaatga 60
atagatgatg cagaggcccc attggagaca cgtgaatggc gtgtgcggcc atcagttccc 120
ggctgggggg caggtgttgc ttcggcccc gccctccggc cggcgtgtgc gagtgcgccc 180
ctggctgtga gtgttgaccg ttcctctccc ctgtacatag cmcgagccag tcctgagtgg 240
gtgactcctg agtgggtgac gcgcagacgg gatttctcag gtcatttgta tggtcgacat 300
gatggctgct gctttggctg ccaccacccc cgggcccagc ctgtctgaaa ttcagggttt 360
aggccgaaaa acccggtggg gaggggtggg gagccggagm tctgtggcgg ggctggaggg 420
ctgggggtgca ctttagtttg gggcgggacg ggagccggcc ttgtgactgg cgtggtctgg 480
ctgctgctcc cgaacggagg ggtcgggggt ggcttgctgg gccctcagag cccagtgggt 540
ggctctgact cggctcccta ctccctgcac ccagctgggg gcacttgggg cctgcgggtc 600
gaatgtatcc ctccctcag ttttaacctg agctgccgaa cgcacagtgg gccggggggc 660
aggctggggg aagcggggcc caattacgga tcccgggagt tacaggtgcc gacgtgatgt 720
cgcttctctg gtgcccagct cccttctctg tctgagacta gctctggggg tggcgggggg 780

```

```

ccccamacgc tgctcccgc ccaccctgcc cgtgctgctg ctctgtgcct gctgtcagag 840
ccctggtggg ggaggatgtg gccaccctga gaccggagg agacgggagc ctgcctgggt 900
ttgcgagag ccgcttatgg gtgtggtccg tccagacacc ttgtttcaag ggggatgggc 960
gtgagcgggc aagcagagca tccccaccgc tgagcaagaa ctttttcttg tttttaaac 1020
atcacgtcct catttcacat tggaataaag tgagtttttg aaacctgcga aaaaaaaaaa 1080
aaaaaaaaaa attc 1094

```

<210> 105

<211> 2297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<400> 105

```

agctcgtgcg cccgccgtgc cgggccggan attcccgggt cgaccacgc gtccgatctg 60
tcctgcacca tctgcctaata tccttcctca cagtctgtag ccattctgata tcctagggga 120
aaaggaaggc caggggttca catagggcc cagcgagttt cccaggaggt agagggatgc 180
gaggctaaca agttccaaaa acatctgccc cgatgctcta gtgtttggar gtgggcagga 240
tgagaaacag tgctgtttg ggggaaaaca ggaaatcttg ttaggcttga gtgaggtgtt 300
tgcttccttc ttgcccagcg ctgggttctc tccaccaggt aggttttctg ttgtgggtccc 360
gtgggagagg ccagactgga ttattcctcc tttgctgac ctgggtcaca cttcaccage 420
cagggctttt gacggagaca gcaaataggc ctctgcaaat caatcaaagg ctgcaaccct 480
atggcctctt ggagacagat gatgactggc aaggactaga gagcaggagt gcctggccag 540
gtcggctctg actctcctga ctctccatcg ctctgtccaa ggagaacccg gagaggctct 600
gggctgatcc agaggttact gctttatatt cgtccaaact gtgttagtct aggccttagga 660
cagcttcaga atctgacacc ttgccttgct cttgccacca ggacacctat gtcaacaggc 720
caaacagcca tgcatctata aaggtcatca tcttctgcca cctttactgg gttctaaatg 780
ctctctgata attcagagag cattgggtct gggaagaggt aagaggaaca ctagaagctc 840
agcatgactt aaacagggtg tagcaaagac agtttatcat caactctttc agtggtaaac 900
tgtggtttcc ccaagctgca caggaggcca gaaaccacaa gtatgatgac taggaagcct 960
actgtcatga sagtggggag acaggcagca aagcttatga aggaggtaca gaattattct 1020
tgcgttgtaa gacagaatac ggttttaac tagtctaggc accagatttt tttcccgctt 1080
gataaggaaa gctagcagaa agtttattta aaccacttct tgagctttat cttttttgac 1140
aatatactgg agaaactttg aagaacaagt tcaaactgat acatatacac atattttttt 1200
gataatgtaa atacagtgac catgttaacc taccctgcac tgctttaagt gaacatactt 1260
tgaaaaagca ttatgttagc tgagtgatgg ccaagttttt tctctggaca gkaatgtaaa 1320
tgtcttactg gaaatgacaa gtttttgctt gatttttttt tttaaacaaa aaatgaaata 1380
taacaagaca aacttatgat aaagtatttg tctttagat cagggttttg ktttgktttt 1440
ttaattttaa aatgcaaccc tgccccctcc ccagcaaagt cacagctcca tttcagtaaa 1500
ggttgaggtc aatatgctct ggttggcagg caaccctgta gtcattggaga aaggtatttc 1560
aagatctagt ccaatctttt tctagagaaa aagataatct gaagctcaca aagatgaagt 1620
gacttcctca aaatcacatg gttcaggaca gaaacaagat taaaaccttg atccacagac 1680
tgtgcgcctc agaaggaata atcggtaaat taagaattgc tactcgaagg tgccagaatg 1740
acacaaagga cagaattcct tccccagttg ttaccctagc aaggctaggg agggcatgaa 1800
cacaaacata agaactggtc ttctacactt tctctgaatc atttaggttt aagatgtaag 1860
tgaacaattc tttctttctg ccaagaaaca aagttttgga tgagctttta tatatggaac 1920
ttactccaac aggactgagg gaccaaggaa acatgatggg ggaggcagag agggcaagag 1980

```

```

taaaactgta gcatagcttt tgtcacggtc actagctgat ccctcaggtc tgctgcaaac 2040
acagcatgga ggacacagat gactctttgg tgttggtcct tttgtctgca gtgaatgttc 2100
aacagtttgc ccaggaactg ggggatcata tatgtcttag tggacagggg tctgaagtac 2160
actggaattt actgagaaac ttgtttgtaa aaactatagt taataattat tgcattttct 2220
tacaaaaata tattttggaa aattgtatac tgtcaattaa agtgtttttg tgtaaaaaaa 2280
aaaaaaaaaa actcgta 2297

```

<210> 106

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (423)

<223> n equals a,t,g, or c

<400> 106

```

tcgacccacg cgtccgcctg tgggacgcgg tgggtggcgt tgggtcgga gagtgagcgg 60
tatttgcmtc gtttttcttg cttgttttcc ccccgtaga ctttgcggg agagcgcgg 120
tatgggcccgc aagaagaaga agcagctgaa gccgtggtgc tggattgta atagagattt 180
tgatgatgag aagattctta tacaacacca aaaagcaaaa cattttaa atgcatatatg 240
tcataagaag ttgtacacag gacctggctt agctattcat tgcatgcagg tgcataaaga 300
gacaatagat gctgtaccaa atgcatacct gggagaacag acatkgattg gaaatatatg 360
gtatggaarg tattccagaa aaagatatkg atgaaagaag acgacttctt ggaacagana 420
acnccagaga gtccaaaaaa ag 442

```

<210> 107

<211> 1019

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (995)

<223> n equals a,t,g, or c

<400> 107

```

ttgatctgcg gctgtcgagg cctgaggcag tggaggctga ggctatgatg gcggccatgg 60
cgacggctcg agtgcggatg gggccgcggt gcgccaggc gctctggcgc atgccgtggc 120
tgccggtggt tttgtcggtg gcggcgccgg cggcgccggc agcggcgagg cagcaggctc 180
cgctggtgct gtggtcgagt gaccgggact tgtgggctcc tgcggccgac actcatgaag 240
gccacatcac cagcgacttg cagctctcta cctacttaga tcccgccttg gagctgggtc 300
ccaggaatgt gctgctgttc ctgcaggaca agctgagcat tgaggatttc acagcatatg 360
gcggtgtggt tggaaacaag caggacagcg ccttttctaa cctagagaat gccctggacc 420
tggccccctc ctcactggtg cttcctgccg tcgactggta tgcagtcagc actctgacca 480

```

```

cttacctgca ggagaagctc ggggccagcc ccttgcatgt ggacctggcc accctgcggg 540
agctgaagct caatgccagc ctccctgctc tgctgctcat tcgcctgccc tacacagcca 600
gctctggtct gatggcacc agggaagtcc tcacaggcaa cgatgaggtc atcgggcagg 660
tcctgagcac actcaagtcc gaagatgtcc catacacagc ggccctcaca gcggtccgcc 720
cttccagggt ggcccgatgt gtagccgtgg tggccggagg gctaggtcgc cagctgctac 780
aaaaacagcc agtatcacct gtgatccatc ctccctgtgag ttacaatgac accgctcccc 840
ggatcctggt ctggggcccaa aacttctctg tggcgtacaa ggaccagtgg gaggacctga 900
ctccctcac ctttggggtg caggaaactca acctgactgg ctccctctgg aatgactcct 960
ttgccagcty tcaactgacct atgaacgact ctttngtacc acagtgcacat taaagttat 1019

```

<210> 108

<211> 711

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<400> 108

```

cttgaaaact tagtttacta tacatcttgc cctattaata tgttctctta acgtgtgcca 60
ttgttctctt tgaccatttt cctataatga tgttgatgtt caacacctgg actgaatgtc 120
tgttctcaga tcccttggat gttacagatg aggcagtctg actgtccttt ctacttgaaa 180
gattagaata tgtatccaaa tggcattcac gtgtcactta gcaaggtttg ctgatgcttc 240
aaagagctta gtttgyggtt tcctggacgt ggaaacaagt atctgagttc cctggagatc 300
aacgggatga ggtgttacag ctgcctccct ctcatgcaa tctggtgagc agtggtgag 360
gcggggagcc agagaaactt gccagttata taacttctct ttggcttttc ttcactctga 420
aaacaaggat aatactgaac tgtaagggtt agtggagagt ttttaattaa aagaatgtgt 480
gaaaagtaca tgacacagta gttgcttgat aatagttact agtagtagta ttcttactaa 540
gacccaatac aaatggatta tttaaaccaa gtttatgagt tggttttttt cattttcyat 600
ttgtatttta ttaagagtgc ttttcttatg gtgatttttt tnaattgcga tttgatattg 660
tttggccata tggcccacc caaatcccca tcttgatta taatcccat g 711

```

<210> 109

<211> 743

<212> DNA

<213> Homo sapiens

<400> 109

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tcgagttttt tttttttttt ttttactttt taaaatttta ttgatgtacc acctgatcaa 60
agcatgggat attttaatatg tattatacat aatatatttta catagaaaac tttacatagc 120
atttcatatt atataattct gcttattctt tcaaaaattt atacatccat tgggcaagga 180
atggttttca ttaaaattacc aatattaaat gcacttaatc atttgttata ggttaaacca 240
aagtaactat taactaactt ttaggcattt taaggaggta aaacatacat tttacacata 300
aatatttgat gcaaatatgc agataaaatt ttttaaaaat tagaactctg agtaaaacac 360
ctttgataga ttatattgtt ttgttttgag agcaaggatt tccagatatg ttcatctttt 420
aaaacactca gctttgggtt ctttgtttcc caaactgcaa agctgctgat aacaaaactc 480
caggattcca tgtgagttca gctatgtcta ctttaacaca aatattaaaa cagaattcag 540
raaatgcagt attaaggatc cagcttctat tgaaaccaat atccatttgc atcataacaa 600
caaacatttg aatgagatgg tcacacttgc acttatcagc aggttccttt aataacaaag 660

```

actactaaat gtatatacctt aatcacaaaa gaacaacaaa aaaaatacag gttttttttt 720
 ttccatttcg tacaaaaagtc acc 743

<210> 110
 <211> 795
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (645)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (737)
 <223> n equals a,t,g, or c

<400> 110
 tnctaaatat cagatgtctt tgatgtaagg gtagggaatg gagaaatatt ttcaattgtg 60
 tatttgtatt acaaagaact tgaaatttac tttcttagtt gattatatta aatgatgtat 120
 atattatatg tggtttataa gctcaacact ggccattttt ttagttttat tgtaaattgg 180
 tattttttcta tgtttaatta taatagatct ggctttttct ggatagcata aagatcactg 240
 aactatatat atataagara caagagttct attttagcac aaaggcattt tatattattt 300
 attgaatcca taagtttggt ttcgtcaaaa acattccata ttattttctgc tcctttttat 360
 ttgtatagtt tgttatttaa agaaatggca gtccttcctg ttcttaatac aataaaattg 420
 aaataatgca cctagtaatg tggccgacat ctcttctcac caccatggac tgttttcaac 480
 aacagttgat ctcttggtct gtgctgagag gcgcatgcat gtctttcgtc acgtcgggca 540
 gcacacctgc tgtgaaatac tgctttcatc tacctcttca gaaggcttct tgcttggtga 600
 caagtaccgc aaaggcttta ttctggactg gctatctcat aaaanggatt tctgtaagac 660
 ttgacagtgt cattccctca gaaccyaggt ttgtttctaa agccacggta ttgtccrrgr 720
 rccctgtgt ktggggncag gtagctatcc ctcccatgct attagtaatc ctttaggatt 780
 ttaaggtaca atggg 795

<210> 111
 <211> 1332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1300)

<223> n equals a,t,g, or c

<400> 111

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ncgggncagc agctcccagt gtgacctgac aaaaacacgt aggggcaggg acggtcccca 60
ccccagggga cacaaccctt ggtcttgac cagtagagga cacggagggt tcagaccctt 120
cctcagaccc tccccacatc tgaaactgcc tcccccaac caccagcagc agcagggccc 180
tcctcccca ccagctctcc ccacagggcc cctcagcatc atggagaccc gcagcggggc 240
ttagccaccc ctcaaaccca gggccccctg gcacctgggc tctggcctgt tttcttgcc 300
agagccccac tttcctaact cgtgctccct tccgccttct tttccgtact gtgaagaaag 360
aactctccac ccagctccc accctgccct ggcctgggtg gaggaactgt gcctccatcc 420
ccagaagaaa cagccccctc tgctgctggg gtgggactgt ctgtgtgcc tggtgggggtc 480
cgtgtgagca ggcccacctg gctccagacc cgcccccaac ctgagacaga accaggctga 540
gccaggcctc cacccccacc ccogtttgct gggggctcct ccagccgcc ccatggraag 600
aggcctggta ccgscctacc cacagaggtc tgtgccaggt gcgcttctgc aggtggagcc 660
aagctctccc tgaggccaga ggcggggcct gggcggggag ccaggggaa ggccaggctg 720
gaccccggtc ycaccccac atccagcctg caggcctctc tgcagtcctc tcacctccc 780
tmagctcccc ttcctctgca gtcacctca gctcccttc cttgcccgcc tctcccccg 840
ccgccccacc agttaaacgg atgaccaaag acctttctta tgccggaagc aaaaacaaa 900
actttttgtt ggctttttcc tttgtsgcct cccagcacc tgccctccca gtctccacc 960
ccggccccag gctggaagcc tccctccact taagttattg ttttaacca agttttacag 1020
tgtctgttgg tggccaagac cttctctctc caccctcct ccatccacc tgaggaccct 1080
ggggctcagt ggaggcaggg cctgcccccc cttcccttcc cggctcctgg ccagcctgg 1140
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acggggagcc ctttcttccc tggaccctgg ggcttgnttc ntgggggggc tcttccaaga 1260
acccctcttc taagggaacc aagtttcacc cgttcgtggn tgggggatgt tgggatttct 1320
aaggcaaaag ag 1332
```

<210> 112

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 112

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ttgctggtct gatccatgca catggccagg ctgctaggct cttgtgctgg gcnggaagtc 60
ggtgcggatg gccagctcca ggatgaccg ccgggaccg ctcacaaata aggtggccct 120
ggtaacggcc tccaccgacg ggatcggtt cgcacgccc ggcgtttggc ccaggacagg 180
gccacgtggt cgtcagcagc cggaagcagc agaatgtgga ccaggcggtg gcacgctgca 240
rggggagggg ctgagcgtga cgggcacctg tncantgntg ggggaaggcg aggaccggga 300
gcggctggtg gccacggctg tgaagcttca tggaggtatc gatatcctag tctccaatgc 360
tgctgtcaac cttttctttg gaagcataat ggatgtcact gaggagggtg gggacaagct 420
ctggatggac aaggaaaaag aggaaagcat gaaagaaacc ctgcgataa gaaggttagg 480
cgagccagag gattgtgctg gcacgtgtc tttcctgtgc tctgaagatg ccagctacat 540
cactggggaa acagtgggtg tgggtggagg aaccccgctc cgcctctgan ggaccgggag 600
acagcccaca ggccagantt gggctctagc tcctggtgst gttcctgcat tcamccaytg 660
gscttttccc acctygytc amcttactgt tcacctcatc aaatcagttc tgccctgtga 720
aaagatccag cttccctgc cgt 743
```

<210> 113

<211> 1690

<212> DNA

<213> Homo sapiens

<220>
 <221> misc feature
 <222> (1659)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1664)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1676)
 <223> n equals a,t,g, or c

<400> 113
 aattcggcac cactcagtc cactcagtc cactcagtc ggccagggac acaccggcca cgtccgcttc 60
 ttggctgcag tccagctgcc agatggcttc aacctgctct gccaaccccc accacctccc 120
 ccagacacag gccccgagaa gctgccatca ctggagcacc gggactcccc ttggcaccga 180
 ggccccgccc ctgccaggcc taaaatgctg gttatcagtg gaggtgatgg ctatgaggac 240
 ttccgactca gcagtggggg cggcasagca gtgagactgt gggtcgagac gacagcaca 300
 accacctyct cctgtggagg gtgtgaccct gtctgccgtg gcccaggact sgcccgccca 360
 cctgccttca gcctgcttgc ctctccctag cccacacgca gactttgacc aggagtatcc 420
 agccagggga cacatgtgcy kgcrtgggct ctgcttgtct tcgcggaaga ttctctgatg 480
 aacacccact ggccagccag gccatggctt ctcccgaccc tctggctgcc ccggtgcttc 540
 cagtcatgat cgggtggggg acatgtgggc tgaccaggac ctctgaccct ggagcttcta 600
 ccaaagacac agctgggtct ggacccacg ggsstgggga gggccatgtg caatatttg 660
 agggttttct ggagggcagc aggaaggctg ggggaattccc catgtacagt atttatgtt 720
 ctttttagat gtgtaccttc ccaagcactt atttatgcag tgacctggtc acctgggtg 780
 ggggtgattt gaggaatga catgaggaaa agaaacctat tcctgccctg gggaccaccc 840
 tgggactcta accaagcctt cctggaggga cccatgcgcc cctgagcccc attccattca 900
 tacagacaca cactgacgca cactgcatgt ccaaggccct aaacattgcc cgttgacata 960
 aactttccag gccccagcc tgatggggct gccctcagtc ctctagatca agatgctgac 1020
 tattaggggg cagtgattgc catctgggga cctgtcaggc tttgtcattt cccagtttgt 1080
 tgggtgtgcc tttagtgggt ccctaatttg ggaacactga tggggccttg gacagggctt 1140
 tctctcagggt aggagaaatg ggcccatgat ctctcacag tcgccccag tccttggtcc 1200
 tgcttccctg tgtctcatgc actggcacat atggtcacct tggagggcag acctaggagc 1260
 ccctctgacc actgaatccg tctccacacc ccttctgcca agggaagccc cttcagggaag 1320
 gaccccccaa agctgagggg ctgaatgtag ctttttcaac agagaaggct cccacttgag 1380
 agcagcctct acctgacccc ctggaccaca gagagccact ctgacctca gccccctgc 1440
 ttcttcagct aaaactccaa aggtttggtt tcagatgggg tttgttttgt tctgtttggt 1500
 tttgttttg tttgggttg gtgggtcatt gcggtcttag attatgtttc tcttgctacc 1560
 aaacagtcac gtattaactc tctttggatg atgaagttaa aagagtcaat aaatagaaac 1620
 accagatgac tgcaaaaaaa aaaaaaaaaa aaaaaaana aaanaaaaa aaaaanaaaa 1680
 aaaaaaaaaa 1690

<210> 114
 <211> 620
 <212> DNA
 <213> Homo sapiens

<400> 114

```

ctctgggcct gggctctggg gagaggggtg ccagggagac tcagctctcc ttgggggctg 60
gccagctgac tgaggggtaca caggattggg tctagacctt gatgcctggg tggagggccc 120
ttgtaagggg ccatagcctc ttcaggacca actggaggga gagttaggaa acaccagctc 180
ctgcctgggg cagtgaggga atgggagcag ctgtgggcgc ctcatttcag gcaagtcctc 240
cccaaacctt cagatgcagt gagacctggc cttcctgttg tgcttttcag actttgtttt 300
cagaatgctt ttatctcgag tgtgcccttc ggccctcaca agagcccctg gggagtaggt 360
ggtggcctgt gccgtcatcc ccatttcaaa gcaggagct gaggtcctgg gaggggaaag 420
tgcttgctg aggtcccact gtgttagtgg gtgggcagga ctggaactcg gttctccaac 480
agcccagagc tactctttt acaccagag gtggagcagg tggcttaggg ggtggttatg 540
tacttcacaa gccaatccc ttcagccagg agctcctggg tgcatttcg tgcagaaac 600
agtaccgagt cccaccccct                                     620

```

<210> 115

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (511)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<400> 115

```

tcgacccacg cgtccgcttc tcggcccctt gtagaacctc tgtcaggttc agcctactcg 60
cctctactcc agcctccact ccggcctcca ccatgtccgt caggtgaccc agaagtccta 120
caagggtgtc acctccggcc cccgggcctt cagcagccgc tcctacacca gcgggcctgg 180
ctcccgcatc agctcgtccg ccttctcccg ggtgggcggc asttccgggg gggcctgaac 240
agcagcatga gtgtggtcgg gggctacggc ggccggggccg gggtatgggg ggcacacgg 300
ccgtctcagt gaaccagagc ctgctgagcc cccttwaagc tggaatkga tcccaacatc 360

```

```

caagctgtgc gcaacccagg agaaggagca gntcaagacc ttcaacaaca anttggcttc 420
gttcatcgac aagtgaagca ctggagcagc agaacaaatt tttggagacc aattggagct 480
tcttaaagca gcagaagacg cgcggagAAC ntagacaaat ntgcgagagt aaatnagaac 540
tt 542

```

```

<210> 116
<211> 525
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

```

```

<400> 116
aattcaaccg tcgttatccc aaaattcagt ttctactttc caccggccct tccggcacta 60
tgctggatgg tgtactggag ggaaaactga atgcggcggt tattgatgga ccattaacc 120
atactgccat cgacgggata ccggtatacc gcgaggaact gatgatcgtc acgccacaag 180
gatatgcgcc agtaaccctg gccagtcagg ttaatggcag taacatttat gccttccgcg 240
ccaattgttc gtatcgtcgc cacttcgaga gctggtttca tgctgacggt gccgctccgg 300
gaactatcca tgagatggag tcttatcacg gaatgttggc ctgtgtgacg gcaggagcag 360
gcattgcgct tattccgcgc tctatgctgg aaagtatgcc ggggcacac cagttgaan 420
cgknggccgt tagctgagca atggcggttg ttaacaacct ggctggtctg gccgtcgtgg 480
tgcgaaaaaa cgttccgctc gaaggggggc ccggtancca attcg 525

```

```

<210> 117
<211> 728
<212> DNA
<213> Homo sapiens

```

```

<400> 117
aacgagcgcc tgctaggatc agcgggtggtg gttccgcgat ggtaggcggc ggcggggtcg 60
gcggcgccct cctggagaat gccaaacccc tcatctacca gcgctctggg gagcggcctg 120
tgacggcagg cgaggaggac gagcaggttc ccgacagcat cgacgcacgc gagatcttcg 180
atctgattcg ctccatcaat gacccgagc atccactgac gctagaggag ttgaacgtag 240
tagagcaggt gcgggttcag gttagcgacc ccgagagtac agtggctgtg gctttcacac 300
caaccattcc gactgcagc atggccaccc ttattggtct gtccatcaag gtcaagcttc 360
tgcgctccct tcctcagcgt ttcaagatgg acgtgcacat tactccgggg acccatgcct 420
cagagcatgc agtgaacaag caacttgacg ataaggagcg ggtggcagct gccctggaga 480
acaccacact cttggagggt gtgaatcagt gcctgtcagc ccgctcctga gcctggcctt 540

```

```

tgaccctca gctgcatac tggatcctg gtccagctc ctgccagggc tgttaccgtt 600
gttttcttga atcactcaca atgagaaact aacattttgc tttttgtaat aaagttaatt 660
tatattcarw tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acccgggggg 720
gggcccccc                                     728

```

```

<210> 118
<211> 948
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (920)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (944)
<223> n equals a,t,g, or c

```

```

<400> 118
agaagtacgg accctgaag cccctgccac agaccccgca cctggaggas gacttgaagg 60
aggtgctgcg ttctgaggct ggcacgaac tcatcatcga ggacgacatc aggcccgaga 120
agcagaagag gaagcctggg ctgcggcgga gcccatcaag aaagtccgga agtctctggc 180
tcttgacatt gtggatgagg atgtgaagct gatgatgtcc aactgcccc agtctctatc 240
cttgccgaca actgcccctt caaactcttc cagcctcacc ctgtcaggta tcaaagaaga 300
caacagcttg ctcaaccagg gcttcttgca ggccaagccc gagaaggcag cagtggcccc 360
gaagccccga agccacttca cgacacctgc ccctatgtcc agtgcctgga agacgggtggc 420
ctgcgggggg accagggacc agcttttcat gcaggagaaa gcccggcagc tcctggggccg 480
cctgaagccc agccacacat ctcggaacct catcttgtcc tgagggtgtg aggggtgtcac 540
gagcccattc tcatgtttac aggggttgtg ggggcagagg gggctctgtg atctgagagt 600
cattcagggtg acctcctgca gggagccttc tgccaccagc cctccccag actctcaggt 660
ggagcaacag ggccatgtgc tgccctgttg ccgagcccag ctgtgggcgg ctccctggtgc 720
taacaacaaa gtccacttc cagggtctgcc tggttccctc cccaaggcca cagggaagctc 780
cgtcagcttc tcccaagccc acgtcaggcc tggcctcatc tcagaccctg cttaggatgg 840
gggatgtggc caggggtgct cctgtgctca ccctctcttg gtgcattttt ttggaagaat 900
aaaattgcct ctctctttgn aaaaaaaaaa aaaaaaaaaa gggnggcc 948

```

```

<210> 119
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (125)

```

<223> n equals a,t,g, or c

<400> 119

```
tcgacccacg cgggtccgctt ggtgggggtcg gctgctttct cgcgtttccc cccaaccccg 60
tccggcctcg cccagcgctt ccacgcgga ccaactgccg gaggcgcggc gcggcgctcg 120
gcngngcgag tgtgaggaaa ccgccgcctc agccgagcgc gcggggccgc ccagggcgtt 180
agttttcggc gcgcagtcgc ggtcccccg c 211
```

<210> 120

<211> 1308

<212> DNA

<213> Homo sapiens

<400> 120

```
tcgacccacg cgtccggact gttctaagtg agttcgggtg ggggagcttc acgaggggag 60
gctgctctgt gaaggaaccg cctttctctc cgcgtgtctc acccttttct ccccatatct 120
gtttggacat gagctgaggg cacggtcgcg ggcggtcagc ctgttcgcag ctacggcgag 180
gaggggcgcg attgycctt gttgccgctc cgttagtggt ccgcgtccat tccgcgcggg 240
gtcccgattt taggggtagg gagaagtgtc agcttcaggc atcgcgaggc gtggcgggcc 300
catggccccg ctgggagggc ccccgcggtt ggtactgctg ttcagcggca agaggaaatc 360
cgggaaggac ttcgtgaccg aggcgctgca gacgagactt ggagctgatg tctgtgctgt 420
cctccggctc tctggtccac tcaaggaaca gtatgctcag gagcatggct tgaacttcca 480
gagactcctg gacaccagca cctacaagga ggcctttcgg aaggacatga tccgctgggg 540
agaggagaaa cgccaggctg acccaggctt cttttgcagg aagattgtgg agggcatctc 600
ccagcccatc tggctggtga gtgacacacg gagagtgtct gacatccagt ggtttcggga 660
ggcctatggg gccgtgacgc agacggtccg cgttgtagcg ttggagcaga gccgacagca 720
gcggggcctg gtgttcacgc caggggtgga cgtgctgag tcagaatgtg gcctggacaa 780
cttcggggac tttgactggg tcatcgagaa ccatggagtt gaacagcgcc tggaggagca 840
gttgagagaa ctgatagaat ttatccgctc cagactttag tctactaggt ctaggagtga 900
gctggggcct gctgaggtg ggggtgggct gactctgcaa aatgggggtg tccccgac 960
ctggccgagg tgaggaacag acaggggggg tctagattct gagggggtg gtggatattg 1020
ggcaaggcag gaaacctctg gagacctcat tttctccatg gggaagacag ccatgctctt 1080
caggaggaga ctccaagggc aaaggagggt gtcttggtg tgcttgaaag cgaaacctg 1140
ccatatcccc agtgccagtc ccctcagcct gtggtggcct tgcacctga ctggatgttc 1200
tcagccctt gttctgggca agaaccaga gctccccagt gtggatacta ataaacctct 1260
tgagacacaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagg 1308
```

<210> 121

<211> 2516

<212> DNA

<213> Homo sapiens

<400> 121

```
gattgacatt ccagtgaat gatgggagtt aattgattta atttagatta gttgaaaatt 60
attacaaaat attctaaaag ggttttttgt ggtacttcaa gaaacctgat tagttttgat 120
ctattgaaat cacaaaagta gaacagggcw ytttattttt gtataattta ggattaggta 180
tgcttctttg ttctaacaag tcatgttttc taacccttct ttcactaagc aaaccagaac 240
agatttgaa cgttatgggt tataatattg tatggagatc agctcagatg acattaaaaa 300
tgccgtagtg ttattcttgt atgcaaatac tttttttccc caaaattagc actttaattt 360
tatttactgt tataatattt gttttcttag attaggtagg aaatcttaat ttggccaccg 420
cctactttga caagtaaata ttacatcata cgattttgca acattaaatt agaacactag 480
```

```

aaactaaaaa attatgtttc agtgaatgct acaactaagc attttttttt ttttaagaaa 540
acaattgtat tatgttttgt tgccttgcca ctttgagtat cttatctgaa aatctgttcc 600
ttgccatggt tttctcctgt taacataaac tatgtgccct gtgaatttct ggggactgaa 660
tttgaaattg ctcttgccaa ccgtttgtgg cctggcgtgt atctgaatgc ctgaatatct 720
ccccgctgaa tgaatttcgt attctgccct gaattcactc gggatatattg attggctgga 780
tgatcttggg gccgccact tgacgtttcc agaagagtca ccgaagaaaa gaaccaggag 840
tgtagaggat gatgaggagg gtcacctgat ctgtcagagt ggagacgtac taagtgcaag 900
atgtatagaa tatttttcaa cacttattaa cttttcagat aacataatct atatatagat 960
taagctttca gggatttggg aatctttttt tctttctctt ttttgtttt gttttatttt 1020
tccatttctt ttggtggggg ggattgtatt ttgtcttctt ttagaaatgt aatgtttgtt 1080
atatagaact tccagaacag taatcaaatt aatgaaatta gacctataaa ttatgttttt 1140
tgatgggtgt gaccaataaa atatctagtg ataaggaaat ttgtagcatc aactagaata 1200
atctacattg atagcattta ttgtgataag tacattgttt ccacttcttg atatgactga 1260
gatttatttc tctcttttag atgaaattgt tgatacttta ggtgaaggag cttttggaaa 1320
agttgtggag tgcacgac ataaagcggg aggtagacat gtagcagtaa aaatagttaa 1380
aaatgtggat agatactgtg aagctgctcg ctcagaaata caagttcttg aacatctgaa 1440
tacaacagac cccaacagta cttccgctg tgtccagatg ttggaatggt ttgagcatca 1500
tggtcacatt tgcattgttt ttgaactatt gggacttagt acttacgact tcattaaaga 1560
aaatggtttt ctaccatttc gactggatca tatcagaaag atggcatatc agatatgcaa 1620
gtctgtgaat tttttgcaca gtaataagtt gactcacaca gacttaaagc ctgaaaacat 1680
cttatttggc cagtctgact acacagaggc gtataatccc aaaataaaac gtgatgaacg 1740
caccttaata aatccagata ttaaagttgt agactttggt agtgcaacat atgatgacga 1800
acatcacagt acattggtat ctacaagaca ttatagagca cctgaagtta ttttagccct 1860
agggtgtgcc caacctatgt atgtctggag cataggatgc attcttattg aatactatct 1920
tggttttacc gtattttcaa cacacgatag taaggagcat ttagcaatga tggaaaggat 1980
tcttgacct ctacaaaac atatgataga gaaaaccagg aaacgtaaat attttcacca 2040
cgatcgatta gactgggatg aacacagttc tgccggcaga tatgtttcaa gacgctgtaa 2100
acctctgaag gaatttatgc tttctcaaga tgttgaacat gagcgtctct ttgacctcat 2160
tcagaaaatg ttggagtatg atccagccaa aagaattact ctcagagaag ccttaaagca 2220
tcctttcttt gaccttctga agaaaagtat atagatctgt aattggacag ctctctcgaa 2280
gagatcttac agactgtatc agtctaattt ttaaatttta agttattttg tacagctttg 2340
taaattctta acatttttat attgccatgt ttattttgtt tgggtaattt ggttcattaa 2400
gtacatagct aaggtaatga acatcttttt cagtaattgt aaagtgattt attcagaata 2460
aattttttgt gcttatgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggg aggggg 2516

```

<210> 122

<211> 1139

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1053)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1125)

<223> n equals a,t,g, or c

<400> 122

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gtggcgcacg ggggtgggagc ggacccaggc cgggagcagg cggcgccgcc agtgagaacc 60
ggggccggag ccgggtgcgg atttgctggg gctgagtcgg gggcgccggg gccctgacct 120
ctgccctctg acctctcccc tagcaggcga ccatggggaa cgtgttggt gccagctcgc 180
cgcccgacag gccgccaccg ccgcctgcgc cggccctcgt ggggctgccg ccacctccgc 240
cctcgccgcc gggcttcacg ctgccgccgc tgggaggcag cctgggcgcc ggcaccagta 300
cgaktcgarg ttcggaacgg acccccgggg ctgcaaccgc cagcgccctca ggggccgccg 360
aggatggggc ctgcggctgc ctgcccacc cgggcacatt cgaggagtgc caccggaagt 420
gcaaggagct gtttccatt cagatggagg gtgtcaagct cacagtcaac aaagggttga 480
gtaaccattt tcaggtaaac cacacagtag ccctcagcac aatcggggag tccaactacc 540
acttcggggc cacatatgtg gggacaaagc agctgagtc caccagaggcgt ttccctgtac 600
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<210> 123

<211> 2114

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1966)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2039)

<223> n equals a,t,g, or c

<400> 123

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gcgccgaccc aagcgatctg gagagcggcg ggctgctgca tgagattttc acgtcgccgc 180
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atcatttgta acagtccact ctgtctttaa aacatagtaga ttacaatatt tagaaagtgt 780
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aactacctac agag 2114

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<210> 124

<211> 583

<212> DNA

<213> Homo sapiens

<400> 124

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gcccggccta ttcccttggtg cttttaaaaa gcgtcttgga tggaggtggt gcaggtgctc 60
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ttgtgactgc acaccgggac cccactcaat tcaaagacc agactgcttc aacctacca 180
acttcctgga caagggcaag ttccagggca atgatgcttt catgcccttt gcctcagggtg 240
caggcagagg aggaagggga ccagcctgga ctggctctgg ggtacctggt gctcactgtg 300
cacctgtgta cccggcaaa cagatgtgcc tgggcacagg cctggccac tcgggtatct 360
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ccatcaacct cacctgcagt gcactggcct gggcagtgtc ccccagact tccagctcca 480
gccagtggcc tgctgaggtc aggtccact atggtgggct cactggccct caaacctcca 540
taccctccts ggtcaataaa ggcctaaat tgcaaaaaaa aaa 583

```

<210> 125

<211> 1987

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1960)

<223> n equals a,t,g, or c

<400> 125

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cagtacngtc cgantcccgg gtcgaccac gcgtccgatg gcggcggagg aacctcagca 60
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gccatcatgg ctcagcagga ccgaattcag caagagattg ctgtgcagaa ccctctgggtg 180
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gktctcagcc cccaggctgt gagctccttg gggcaggccc tcaataaatg tgaaactgct 1920

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gctgcaaaaa aaaaaaaaaa aaaaaaaggg ggccgcttan agatcctcaa gggccaagta 1980
cggtgat 1987

<210> 126

<211> 1451

<212> DNA

<213> Homo sapiens

<400> 126

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tacttatttg tggttggaat gagggacgac catatttatt tcagtcagat ccatctggag 480
cttactttgc ctggaaaagct acagcaatgg gaaagaacta tgtgaatggg aagactttcc 540
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cataacaatg aagtgactga aaaatccaga atttcagata atctatctac ttaaacatgt 780
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aaaaaaaaa a 1451

<210> 127

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (857)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1226)

<223> n equals a,t,g, or c

<400> 127

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gtgtattttg tacacaggtt ttatgctggg ggctcagaga gaagtggaca gcagattgtt 180
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aacgtctcct ccatagctct gggttcttag atcttggttg gacgtttgtt ttctccttag 1140
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accnaaaggg gggcccgggc ccaatncccc cctt 1234

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<210> 128

<211> 863

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (840)

<223> n equals a,t,g, or c

<400> 128

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cgtggtattc agggacatct cgcgcgtcct gaaggacccc gcctccttcc gcgcccgaat 180
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cctagactcc cgaggcttcc tctttggccc ctccctggcc caggagcttg gactgggctg 300
cgtgctcacc cgaagcgagg ggaagctgcc agggcccaact ctgtgggcct cctattccct 360
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ggtcgtcgtg gatgatctgc tggccactgg tggaaacctg aacgctgcct gtgagctgct 480
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cagtgaccag gggcaccggc tgcccacagg gaacacatc ctttgcggg gttcagcgcc 720
tctcctgggg ctggaagtgc caaagcctgg ggcaaagctg tgttcagacc acactgaacc 780

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caattacaca cagcgggaga acgcagtaaa cagctttccc aaaaaaaaaa aaaaaaaaaan 840
 aaaaaaaaaa aaaaagggcg gcc 863

<210> 129

<211> 1238

<212> DNA

<213> Homo sapiens

<400> 129

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 attctyawca agaagattta tgaggagaag aaaaagaa 1238

<210> 130

<211> 379

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (373)

<223> n equals a,t,g, or c

<400> 130

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 gcagcraagg acccaggggc agagccacgc tggggatgga ccccttcgag gacacgctgc 180
 ggyggctgcg tgaggccttc aactgakggc gcacgcggcc ggccgagttc cgggctgcgc 240
 actccagggc ctgggccaact tccttcaaga aaacaagcar cttctrcgm acgtgctggc 300
 ccaggaactg cataagccag ctttcgaagg cagacatatc tgagtcatcc tttgccagaa 360
 cgagggtgaa tangctctt 379

<210> 131

<211> 1786

<212> DNA

<213> Homo sapiens

<400> 131

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aataaagttt taaaaactaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1786
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<210> 132

<211> 974

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (853)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (963)

<223> n equals a,t,g, or c

<400> 132

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<210> 133

<211> 634

<212> DNA

<213> Homo sapiens

<400> 133

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cagtgccctt tccaggcctt aagagaagta aaacttagct gcagcgtcag gaggtggacc 180
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ccagaccctc tacatctgca gtgagtgcgg acaaagcttc cgccacagcg gccgtcttga 480
cctacacttg ggcgcacacc ggcagcgatg ccgcacttgc ccctgccgca cwtgcggccg 540
gcgcttcccg cacctcccg cgctgctgct acaccggcgc cgccagcatc tgccagagcg 600
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```

<210> 134

<211> 1855

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1845)

<223> n equals a,t,g, or c

<400> 134

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cgcgcgaggg ccggcctctg tgtgtgcgcc acagcgagcc ggtgtgcggc agcgacgcca 180
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```

<210> 135

<211> 917

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (913)

<223> n equals a,t,g, or c

<400> 135

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```

```

tggccgcccc agttgggggg cgagctcggt ggtgacgcgc ggccctcacg tgaccarag 120
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```

<210> 136

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1255)

<223> n equals a,t,g, or c

<400> 136

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gaaaagaagt acacgatggg ggacgctcct gattatgaca gaagccagtg gctgaatgaa 240
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cagctggcca aactctgcta tgaccagat tttgagaaac tgaaccaga atacctgcag 480
gcactccctg aaatgctgaa gctctactca cagtttcttg ggaagcagcc atggtttctt 540
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tcagccccga gctgtccccg tgttgcatga aggagcagca ttgactgggt tacaggccct 1140

```

```

gctcctgcag catggtccct gccttaggcc tacctgatgg aagtaaagcc tcaaccacaa 1200
aaaaaaaaaa aaaaaatttg gggggggggc cgttanccca tttggccctt tagngggggg 1260
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```

<210> 137

<211> 2017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<400> 137

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aacaggagat tgctactcta gacaacaaga caatgactga tgtgggtgggt aaccararga 180
rgagcgccga gctgagttct acttccagcc ctgggkcagg aggctgtgtg ccratacttc 240
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```

<210> 138

<211> 937

<212> DNA

<213> Homo sapiens

<400> 138

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```

<210> 139

<211> 2759

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2743)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2744)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2746)

<223> n equals a,t,g, or c

<400> 139

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<210> 140

<211> 1241

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<400> 140

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 1241

```

<210> 141

<211> 3405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1569)

<223> n equals a,t,g, or c

<400> 141

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<210> 142

<211> 2268

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2196)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2232)

<223> n equals a,t,g, or c

<400> 142

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tgtagcaaaa agttgattag cttaccaaga ttattaatag caatgtatgt gttataatac 2160
aacttagttna cattaaagcc tacgaaaact catccnggct gtaggatagt aataaaggaa 2220
gaattatgac tncattatga aaaaaagaag ttttaaagtt ttcaatac 2268

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<210> 143

<211> 1757

<212> DNA

<213> Homo sapiens

<400> 143

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attttcacac acagtgtgta agatgctgca agaccaaatac atagctcata aaatcaggtc 180
ctgagatagt taccataaaa gaggaatcct ttgagtgtat gccattgggtg agccgatgag 240
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tgaaatgtat tccatacat aatatgggtat aggggtgtaat gtacctgctt ttgatcactt 360
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gttacatagt tactacacca catttatgtg tatgttatgt tttaatagtc aatgataggt 480
atgtacaatt gataataata aggggtcat tgaaacttga gagcctgttg agttttggtt 540
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ataagcatta ttttaaatga cgctgatcctt aagtctgaaa taaatggaaa gcagaaaagg 720
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ttagagtttg ctttaatgac attgtatgta aaaggtcaca tgattgctgt aattttgtat 1680
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aaaaaaaaaa aaaaatt 1757

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<210> 144

<211> 1062

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<400> 144

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gaggggggcg gaaagaagaa agggggcggg gttgaggggg gcgggccttg acctggggag 180
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gtccctgctt gccctgggta agccagaagt ctggactctc aaagagaaat gcattctggt 600
gattacatgg atccaacacc tgatcccaa gattgaagat ggaaatgatt ttggggtagc 660
aatccaggag aaggtgctgg agagggtgaa tgccgtcaag accaaagtgg aagctttcca 720
gacaaccatt tccaagtact tctcagaacg tggggatgct gtggccaagg cctccaagga 780
gactcatgta atggattacc gggccttggg gcatgagcga gatgaggcag cctatgggga 840
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cagcaacctg gagaaaattg tcaacccaaa ggggtgaagaa aagccatcta tgtactgaac 960
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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaanaaaa aa 1062
```

<210> 145

<211> 1030

<212> DNA

<213> Homo sapiens

<400> 145

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gcggtccttg acttgccccc agacagccgg cagggtcgtg gccagaacgc cggccgggac 120
catctgcaca ggcgctcgac agctccaaga cgctgcggcc aagcagaaag ttgaacagaa 180
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aaaaaaaaaa

1030

<210> 146

<211> 814

<212> DNA

<213> Homo sapiens

<400> 146

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actgggcat ggagactgtg gcacagtaga ctgtagtgtg aggctcgcgg gggcagtggc 120
catggaggcc gtgctgaacg agctggtgtc tgtggaggac ctgctgaagt ttgaaaagaa 180
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<210> 147

<211> 2678

<212> DNA

<213> Homo sapiens

<400> 147

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atccattttt aaggstgtgt gaatttttct aaacaagaac catttgcaat atggatttct 2520
tagagattaa accaattata acttattagc agtsgcgagc acatgttcat atagtcaatg 2580
taaaaataca ctaatgagta tttggtaaat ccagtaggc ttttaccatt agcataattt 2640
tgtgtgtgac ctcgccgcg accacgctaa gccgaatt 2678

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<210> 148

<211> 1028

<212> DNA

<213> Homo sapiens

<400> 148

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tttgtgtcct tttagtagag acggggtttc gctatgttgg ccagactggt cttgaactgc 120
tgacctcgtg atccgcccgc ctcggcctct caaagtgtg ggattctgtg tgttttgtgc 180
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aggctagttt caagcaacag caatgtcggg tggaagcag gcgtcatttg ccttgaaaaa 300
agccttttga caacatacag gcattctttt aaaaccaggc tgaaacattt tattcccgag 360
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gacatctttc attggatttt ggaaaaattg tccccatggg attctaacct cactaccaa 480
tgagtgaag cttgattaag agttcttcca tatactagcc tccttggaag aagtgatcag 540
aagggtgataa gaaggacaga aaggactatt ttaaagttgg actgaaggag aaaaaagcaa 600
aattcttgtt tcatcccaat tctagttaga acaaagttaa acccccgtaa tcttaaagag 660
aaaatctttg gaggttttaa ttaaacattt tatacattta agtcttgtt aatggtgctt 720
taagtgtcaa ttagcatgt aaaaaggctt gtacagacag gtaaaagttc catttctgag 780
tgatgaaatg taacacttct tcatctttaa cttgaaatca aaactatcag attttatttt 840
tgtataattt aagggaaggta aagttagggg actagaagac tctaaattgg cttctacaga 900
tcaataattt aaatgtaact agttgggatt ttatagttaa aattatattt gtgtatataa 960
cataactaat ctgtaaatg taataaatat atttgcaatt attaaatggt aagtgatatt 1020
ttggttca 1028

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<210> 149

<211> 1425

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (647)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1359)
<223> n equals a,t,g, or c

<400> 149
gcgtctccgg aagtggagggc gggagcggca cggcagccac tgcttggggg agcgggaggg 60
cagactcttg gcgccactcc cgggccgggc atgaacgggc cggcggacgg cgaagtggac 120
tacaaaaaaa aataccggaa tctgaagcgg aagctcaagt tcctcatcta cgagcacgag 180
tgcttccagg aggagctgag gaaagcgcaa aggaaattac tgaaggtgtc ccgggacaag 240
agtttcctcc tagaccgact tctgcagtac gagaacgtgg atgaagactc ttccgactca 300
gatgccactg catcatcaga taacagcgag acggagggga cacccaagtt gtctgacaca 360
ccggccccta agaggaagag aagccctccg ctggggggcg cccctctctc ctccagcctc 420
tccctgcctc cttcaacagg gtttccctt caggcctccg gggccccctc cccataacctg 480
agctcgctgg cctcctcccg ctacccccca ttcccttctg actacctggc cctgcagctg 540
cccgasccca gtcccctrag gcccagcgag gagaaacggc cccgmctgcc ccggaaactc 600
aagatggcgg tgggaccccc cgaytgccct gtgggagggc cgctganctt ccctggccgg 660
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cccacgatcc tgagcacggg ccctcggcag atgttcagcg atgcaggtag cggggacgat 780
gccttggatg gagacgatga cctggtgatc gacatcccgg agtgaccgtg acatcacgcc 840
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tcggagggtg ttattgatgc ccagctgcca tgctccggcc actgacacaa ccagaaaagg 960
cgtaaacatg cacgggtgtc ccccaggagg gtgcaggggc cctgccttca aaccccgggc 1020
ccctccaggg gacagttatt taaacgagtg gccgggagca tctgccacct gctggggagg 1080
cagagaccct gcaatggcca cctctttaa agggcagctg tacagggcta gggtttttca 1140
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cattctcctc ctctgaacct cccctaattc gacctcctc ctgttggggg agagggacgg 1260
ggcagcgtgg agaggcagga gtgaggagcg cgggggcctg gggccgggct ctgagcactg 1320
cccgggtgtg cagatgatgg ggggtttgca tatttgcaang ggactagcga gtcaggcagg 1380
aggtttgcac atgtgaatat agaactccgc agcccctcat gagca 1425

<210> 150
<211> 780
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<400> 150
gctgcgagaa gacgacagaa ggggagagcc aatggaaagg ggctgccgcg cggccgtaaa 60

gagttttag agcagttcgg gtgcggtacg ttgcattccg gtaccggacg ccgagagcgg 120
tttgtctccg tctctggagt tgtaggcgag aggtgatcat gtccggtcgc gggaaacagg 180
gcggcaaagt gcagacaaag gccaaatccc gtcctctccc cgcgggcctg cagttcccgg 240
tgggccgagt gcacagactg ctgcgcaaag ggaactacgc ggasnagtgg gcgccggggc 300
gccggtgtac ctggcgggcg tgttggagta ccttacggcg gagatcctgg agctggctgg 360
caacgccgcg cgtgacaaca agaagaccag gataattccc cgccacctgc agctcgccat 420
ccgcaacgac gaggagttaa acaagctgct gggcaaagt accatcgctc agggcgggcgt 480
cctgcccac atccaggccg tgctgctgcc caagaagacg gagagtcaga agacgaagag 540
caaatgaccc tgacgccgcc ctgaggagc tggtccsc agcaaaggcc cttttcatgg 600
tcgtcccga atgcttttga atgtgctgga tgtcatggag ggccggtgac atctagcggg 660
gaggtgggcg gcgaggggtc cgcggggagc caataaagt ggtgaaaatc gtaaaaaaaa 720
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780

<210> 151

<211> 1066

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 151

ggaccgccca tggcgcgga gaaggtgcgt ccgcggctga tcgcggagct ggcccgcgcg 60
gtgcgcgccc tgcgggagca actgaacagg ccgcgcgact cccagctcta cgcggtggac 120
tacgagacct tgacgcggcc gttctctgga cgccggctgc cgggtccggg ctggggccgac 180
gtgcgcgcg agagccgcct cttgcagctg ctgcggccgc tcccgtctct cggcctgggc 240
cgccctggtca cgcgcaagtc ctggctgtgg cagcacgacg agccgtgcta ctggcgccctc 300
acgcgggtgc ggcccgaacta cacggcgagc aacttgacc acgggaaggc ctggggcatc 360
ctgaccttca aagacgcctc tttttcttca tcagggaaga ctgagagcga aggcgcggga 420
gatcgaacac gtcatgtacc atgactggcg gctggtgccc aagcacgagg aggaggcctt 480
caccgcgttc acgcccggcg cggaagacag cctggcctcc gtgccgtacc cgctctcct 540
ccgggccatg attatcgag aacgacagaa aaatggagac acaagcaccg aggagcccat 600
gctgaatgtg cagaggatac gcatggaacc ctgggattac cctgcaaaac aggaagacaa 660
aggaagggcc aagggcaccc ccgtctagaa tgccagaacc agcgggtggc cttaggggct 720
gtgaggcagt ggggacctta ttgatgaaag aaaccgtctt tgctgttacac ccgagtcctg 780
ctctcgagc agggagctca ccttccgcga cgtgttctga ggtctgcat cttagggggg 840
agggtgggg caaatcgcca cctgtgcctt tcctctggcc ctgctgcccc cacacccaac 900
tccgagggcc cacgctgggg aaagcgggaa gcgctcgctc cctttcccc attagtgtc 960
tctctgcctg gatcccgga gaagctatga aagggaataa agagaaaaga artamaaaaa 1020
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa nccccct 1066

<210> 152

<211> 1649

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1543)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1579)

<223> n equals a,t,g, or c

<400> 152

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accccggtctc tccaaggagg tgtgacatca tcatcatctc tggccggaaa gaaaagtgtg 60
aggctgccaa ggaagctctg gaggcattgg ttcctgtcac cattgaagta gaggtgccct 120
ttgaccttca ccgttacgtt attgggcaga aaggaagtgg gatccgcaag atgatggatg 180
agtttgaggt gaacatacat gtcccgccac ctgagctgca gtctgacatc atcgccatca 240
cgggcctcgc tgcaaatattg gaccgggcca aggctggact gctggagcgt gtgaaggagc 300
tacaggccga gcaggaggac cgggctttaa ggagttttaa gctgagtgtc actgtagacc 360
ccaaatacca tcccaagatt atcggggagaa agggggcagt aattacccaa atccggttgg 420
agcatgacgt gaacatccag tttcctgata aggacgatgg gaaccagccc caggacccaa 480
ttaccatcac agggtagcaa aagaacacag aagctgccag ggatgctata ctgagaattg 540
tggttgaaact tgagcagatg gtttctgagg acgtcccgtt ggaccaccgc gtccacgccc 600
gcatcattgg tgcccgccgc aaagccattc gcaaaatcat ggacgaattc aaggtggaca 660
ttcgcttccc acagagcggg gccccagacc ccaactgcgt cactgtgacg gggctcccag 720
agaatgtgga ggaagccatc gaccacatcc tcaatctgga ggaggaatac ctagtgtacg 780
tggtggacag tgaggcgctg caggtataca tgaaaccccc agcacacgaa gaggccaagg 840
caccttccag aggtcttgtg gtgcgggacg caccctggac cgccagcagc agtgagaagg 900
ctcctgacat gagcagctct gaggaatttc ccagctttgg ggctcagggtg gctcccaaga 960
ccctcccttg gggcccaaaa cgataatgat caaaaagaac agaaccctct ccagcctgct 1020
gacccaaacc caaccacaca atggtttgtc tcaatctgae ccagcggtg gaccctccgt 1080
aaattgttga cgctcttccc ccttcccag gtccgcaggg agcctagcgc ctggctgtgt 1140
gtgcggccgc tcctccaggc ctggccgtgc ccgtcagga cctgctccac tgtttaacac 1200
taaaccaagg tcatgagcat tcgtgctaag ataacagact ccagctcctg gtccaccg 1260
catgtcagtc agcactctg ccttcatcac gagagctccg cagccgtggc taggattcca 1320
cttcctgtgt catgacctca ggaaataaac gtccttgact ttataaaaagc caaacgtttg 1380
ccctcttctt tcccaacctc cctcctgcca gtttcccttg gtccagacag tcctgtttgt 1440
ggagtgaat cagcctctc cagctgccag agcgctcag cacaggtgtc agggtgcaag 1500
gaagacctg caatggacag caggaggcag gttcctggag ctnggggggtg acctgagagg 1560
cagagggtga cgggttctna ggcagtcctg attttacctg ccgtggggtc tgaaarcacc 1620
aagggtccct gacctacct ccaactgcca 1649
```

<210> 153

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 153

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ccggaaattc ccgggtcgac ccacgcgkcc gcggnagwgc tcacacgtgt gctccctgcc 60
ctgctcctgg ccccttggcc ggccgggctg tttctggcca tgggtcgctc ccgccggaca 120
ggcgcgacc gagcgactc tctagccccg cagatgaagg cgaacggcgg cggccggact 180
```

```

tggatgagat tcaccgcgag ctgcggcctc agggatccgc acgaccccag cccgacccaa 240
acgccgagtt cgaccccgac ctgccagggg gcggtctgca ccgctgtctg gcctgcgcga 300
ggtacttcat cgattccacc aacctgaaga cccacttccg atccaaagac cacaagaaaa 360
ggctgaagca gctgagcgtc gagccctaca gtcaggaaga ggcggagagg gcagcgggta 420
tgggataccta tgtgcccccc aggcggctgg cagtgcccac ggaagtgtcc actgaggtec 480
ctgagatgga tacctctacc tgacatggcc tgaagatgca gggcagagga attgcccattg 540
gacagtgacg caaggactag gctgggaggg agcgtgccaa ccccttttgc ctctgggttt 600
ggggagcgga gggcctcttc ttggtgccct gcccctaata aaggaactgg acaaagagaa 660

```

<210> 154

<211> 605

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (574)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (578)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<400> 154

```

ggcagagctc caccttccat ccggcgccgg ctttcggcgc gacggtcgcc gcgttccatc 60
gtcgcgcggc ctttcggggc cccgagcccg caatgtcggg cccaacgga gacctgggga 120
tgccggtgga ggcgggagcg gaaggcagag aggacggctt cggggaagca gaatacgctg 180
ccatcaactc catgtctggac cagatcaact cctgtctgga ccacctggag gagaagaatg 240
accacctcca cggccgcctc caggagctgc tggagtccaa ccggcagaca cgcctggagt 300
tccagcagca gctcggggag gccccagtg atgccagccc ctaggctcca agagccccc 360

```



```

accgggaccc aaccctgcct ccctgggcta ggctctggcc tgggcactca mccccctggct 420
tagacamctt ctcaagggtt ggccttcang gacccctggt gggctctgcct gcctgggcca 480
accttcctgc ctgggsctyc ccttggctam ctgggscagc cccaccaaac tggcatgccc 540
tcctgggggc caaagaatgg ggcctgcaac ccancantt gcntgcnaaa cccaanttcc 600
tggggg                                           605

```

<210> 155

<211> 695

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<400> 155

```

gaaccctaga aaaaaggatg cagtactaaa gtgtcattca ttcaaagcca ctccctctttt 60
ggtattccac ccattttcca gacggtgaca ctgaggctca ggaagcagta gggacttgca 120
caaagccctt tgggaagcag gctgggaaac agtggaggga ggggtgtccat tanccccaag 180
gagacacagg atctgggctc tktytttsgc ctccctccca gaatacgtg ccatcaactc 240
catgctggac cagatcaact cctgtytgga ccacctggag gagaagaatg accacctcca 300
cgcccgcctc caggagctgc tggagtccaa ccggcagaca cgcctggagt tccagcagca 360
gctcggggag gccccagtg atgccagccc ctaggctcca agagccccc accgggaccc 420
aaccctgcct ccctgggcta ggctctggcc tgggcactca cccccctggct tagacacctt 480
ctcaagggtt ggccttcang gacccctggt gggctctgcct gcytgggcca cccttcctgc 540
ctgggrcctc cccttgkcc tactggggcc agccccacc acctggcatg ccctcctggg 600
gccaaagatg ggcctgcaam ccacccattg sctgcccacc caattcctgg gcgytcccca 660
wtytgcccag gcttgaatgt tcacatgaaa tgggt                                           695

```

<210> 156

<211> 780

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<400> 156

```

cgggtgggctc gcgttgagge tgcggtcatt gagggagcag gagctggatc cggcttccgg 60
aaggagctgg tgagcaggct gctgcacctg cacttcaagg atgacaagac caaagtgagc 120
ggggacgcgc tgcagctcat ggtggagttg ctgaaggctt tcgttggtga agcagcagtc 180
cgcggcgtgc ggcaggccca ggcagaagac gcgctccgtg tggacgtgga ccagctggag 240
aaggtgcttc gcagctgctc tggacttcta gggatctcag ccgtggckna ggccaccccc 300

```

```
agaggagccc ctggtccaca gaagcaggcc ttgtgtttcc agcggcctct gataagaggc 360
aggggaaggam ctgaaggatt tggarttgat tcaaacaaga tctctgggag tctccagcct 420
gtgcagaagg ggcaggactg cagtgcactg cgggccttgg agtgtccagt ggggacactg 480
gtgtgggaag gggcagcacc tggggagtcc ctgcctctcc tccctgggac aatagtgtgc 540
atgccacccg gggtcctaca ggcagggtgt gggaaaggcc tggccagcag gtagcctgtg 600
tgtttgacaa acagcagctg gcagcgctgc ctccctgcca cattcctgcc acccgacatc 660
aaagctggcg tgtgaccttt ccagccatgc gatattcccc ttggaagatg cttccccagg 720
ctataaattt gttctcacia agcaacatca ataatcaaaa actgtctcty ccaaaaaaaaa 780
```

<210> 157

<211> 1127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1113)

<223> n equals a,t,g, or c

<400> 157

```
aacttcagtgc ccctcactgt agaatttaaa agccttactg ttgattgccc atggtggact 60
tgatggagaa attaaatata ttccattatg ctttacaata tactgtatat gtttcagcaa 120
gtttggggaa tgggagagga caaaaaaag ttacatttaa tctatgcatt ttgccaagc 180
catattgagt tattttacta ctagagacat taggaaacta actgtacaaa agaaccaagt 240
ttaaaagcat tttgtggggt acatcatttc tataattgta taatgtattt ctttgtgggt 300
ttaaatgata aagacattaa gttaacaaac atataagaaa tgtatgcact gtttgaaatg 360
taaattattc ttagaacact ttcaatgggg gttgcattgt ctttttagtg ctttaatttg 420
agataattat ttactgcca tgagtaagta tagaaatttc aaaaaatgta tttcaaaaa 480
attatgtgtg tcagtgtgtt ttccattgat aattggttta atttaaaata tttagagggt 540
tgttggactt tcataaattg agtacaatct ttgcatcaaa ctacctgcta caataatgac 600
tttataaaac tgcaaaaaat gtagaagggt gcaccaacat aaaaaggaaa tatggcaata 660
catccatgat gttttccagt taacatagga attaccagat aaatactgtt aaactcttgt 720
ccagtaacaa gagttgattc atatggacag tatgatttat tgtttatttt ttttaacaaa 780
tacctcctca gtaatttata atggctttgc agtaatgtgt atcagataag aagcactgga 840
aaaccgatcg tctctaggat gatatgcatt tttcaagtgg tattgaaagc cgcactgatg 900
gatatgtaat aataaacata tctgttatta atatactaat gactctgtgc tcatttaatg 960
agaaataaaa gtaatttatg gatgggtatc ttttaatttt actgcaatgt gttttctcat 1020
ggctgaaatg aatggaaaac atacttyaat tagtctctga ttgtatataa atgtttgtga 1080
aattccatgg ttagattaaa gtgtrttggg aanaattctc catggggg 1127
```

<210> 158

<211> 1282

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (120)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (732)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1279)
<223> n equals a,t,g, or c

<400> 158
tgctctacaa atagtaaaaa taaaaaataa aaaaagtagc tgggcgtggt ggtgtgcacc 60
tgtggtccca gctgcttggg atgctgaggt ggaaggatct cttaaaccce ggaggggtggn 120
aggctgcagt gaacttgcca ttgcaccact ggcactccag tctgggggac agagtgcagac 180
cccattctcaa aaaagtgttt aattnantat acttgtagt ggtctatttg catttnaaaa 240
ctgctttcta gaattaggat agctccctta ggtttaatgt tttggtgagc aggaatatca 300
gttacccttc cagatcttaa ttctagtttt tttatcactt tttcatgagg tgatctcacc 360
ctcatctcct agcatgtctg gcaattttga tttctgaact ctgtgctacc tcagaggcca 420
gcttccttag ggaaaaatca gtgctgaaat aaagtatat ttccttttct gctctaaata 480
tatagtgggg gaataagaga aatgaagagg aattcctgag aacgtaatta ctagaaactc 540
ccctctccca cgtaattgtc ctcacacacc atggaccctt attcccccaa tttgcgaccc 600
cccacccac cccacaacag gtggtgatct ttgtgaagtc tgtgcagcgg tgcattgcct 660
tggccagct actagtggag cagaacttcc cagccattgc catccaccgt gggatgcccc 720
aggaggagag gntttaaaga ttttcaacga cgaattcttg tggctaccaa cctatttggc 780
cgaggcatgg acatcgagcg ggtgaacatt gcttttaatt atgacatgcc tgaggattct 840
gacacctacc tgcacgggt ggccagagca ggccggtttg gcaccaaggg cttggctatc 900
acatttgtgt ccgatgagaa tgatgccaag atcctcaatg atgtgcagga tcgctttgag 960
gtcaatatta gtgagctgcc tgatgagata gacatctcct cctacattga acagacacgg 1020
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ggggtgaagg agacactact gccccaccc ctgacagccc ccaccccatg gcttccatct 1140
tttgcatcac caccactcct gaaccccat ttctgatttg tcagaatttt tttttaacaa 1200
aactaaaaat gaaacacatg tgtctgtggt atctaaaaaa aaaaaaaaaa aaawwggggg 1260
gsgcccgta cccattgnc ct 1282

<210> 159
<211> 1505
<212> DNA

<213> Homo sapiens

<400> 159

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ttacatgttg cagaagctaa ttgaagagac agataggttt gtagtggtca cagaagagga 60
atcaggcatg agtgaccagt tgtgtggcat tgctgcctgc cagacggatg acatatacaa 120
ccgaaactgc cttattgaat tggtaaacct gtcagatggt tcttcgtgga gcagagacak 180
aaggctgtgt catttgtgtca gctgccaaag cccaactgct gcagtgccag caccatccag 240
cctggtatgg tgatacattg aagcaaaaaga catcctggac ttgcctcttg gatggcatgc 300
agtactttgc caccactgaa agcagcccca cagagcagga tggccgacag ctctggttag 360
aggtgaagaa tatcgaggag caccggcagc gtagtctgga ctctgtgcag gagctgatgg 420
agagtgggca ggcagtgggc ggcattggtta ccacaaccac agattggaac cagccagctg 480
aggcacagca agcccagcaa gtccagcgga tcatttcgcg ttgcaactgc cgaatgtact 540
atattagtta cagccatgac attgatcctg aactagcaac tcagattaag ccacctgaag 600
ttcttgagaa ccaggaaaag gaagatctcc taaagaagca ggaaggggct gtggatacct 660
tcacccttat ccaccatgag ctggaaatth ccaccaaccc agctcagtat gccatgatcc 720
tggaatttgt caacaacctg ctgctccatg tagaacctaa gcggaaggaa catagtgaga 780
agaagcaacg ggtcaggttc cagcttgaga tctctagcaa tccagaggag caacgcagca 840
gcatactgca ttgacaggag gctgtgcggc agcatgtggc ccaaatacga cagctggaga 900
agcagatgta ttctatcatg aagtctttgc aggatgacag caagaatgag aatctgcttg 960
acctgaacca gaagcttcag ttgcagctaa accaggagaa ggccaacctg cagctggaaa 1020
gtgaagaact gaatatcctc atcagggtgtt ttaaggattt ccaactgcag cgggctaaca 1080
agatggagct gcgaaagcac aagaagatgt gagtgtggtc cgtcgcaact agttttactt 1140
tgctcaggca cgggtggcgc tgacagagga agatggacag ctgggaattg ctgaattaga 1200
actgcagagg ttctcttaca gcaagggtgaa taagtctgat gacacagcag aacatcttct 1260
ggagttgggc tggtttacca tgaacaacct cctccccaat gctgtctata aggtagtact 1320
gcggccccag agctcctgcc agtctgggag acagctagct ctccgcctct tcagcaaagt 1380
tcggccccct gttgggggta tctctgttaa ggagcattht gaggtaaatg tgggtgctctc 1440
accatccagc tgacacacca ttcttcacca gatgatgggc ttttctttcc tggccgaagt 1500
gtgga 1505
```

<210> 160

<211> 736

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<400> 160

```
aggcacgagg gacacttggg gtctggacgc aacggcggcg ggagcatgaa cggccctcca 60
gccttcgagt cgttcttgct cttcgagggc gagaagatca ccattaacaa ggacaccaag 120
gtacccaatg cctgtttatt caccatcaac aaagaagacc acacactggg aaacatcatt 180
aaatcacgtg cctgcttccc ctctgccttc tgccgtgatt gtcagtttcc tgaggcctcc 240
ccagccacgc ttctgtaca gcctgcagaa ctgtgagtca attaaacctc ttttcttcat 300
```

```
aaattaccca gtttctcata gttctttata gcagtgtgaa aacagactaa tggacccttc 360
tggttgaagg aatgcagcca ttctgcttgt ttgactatgt ctttcttatt catctctatt 420
tcctggggagg tgtttatcca agtgcaatag gaggtattgg tgaccgcaca gtcccctcag 480
tgttctgcta gtaaatagtt gaaggttgat cattgatctt ctgcgttttc agtctggcat 540
ggaaaagccc ctgtgcaact ggtaaagata tcaataagca cctggtgggt ggcgggggta 600
gtccaggctt gtcttgcaac tgtatgttct cttcagacct ctccctggcg atgccagatt 660
cactgggctg gcagattctg cccccccaa aaaaaaaaaa aaaatattaa taataaanaa 720
aanagactcc cagggg                                     736
```

<210> 161

<211> 995

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (899)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (928)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (938)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

<223> n equals a,t,g, or c

<400> 161

```
gggtcgaccc acgcgtccgg gcggcctcgg cagcgggtgtt ctcgcgcttg cgaasgggnc 60
```

```

tccggctcgg ctcgcgggga ctgtgcacga ggttggcgac gcgccccgcc gggccccaga 120
tcaggccgca gagatcggga gccgcgggag cactaaggcg caagggccac agcagcagcc 180
gggctcagag ggtcccagct atgccaaaaa agttgcgctc tggcttgctg ggctgcttgg 240
agctggtggg actgtgagcg tcgtctatat ctttggaac aaccgggtgg acgaaaatgg 300
tgccaagatt cctgatgagt tcgacaatga tccaattctg gtacagcagt tgcgccggac 360
atacaaatat ttcaaagatt atagacagat gatcatcgag cccaccagcc cttgccttct 420
cccagaccct ctgcaggaac cgtactacca gccaccctac acgctcgttt tggagctcac 480
cggcgtcctc ttgcatcctg agtggtcgct ggccactggc tggaggttta agaagcgccc 540
aggcatcgag accttggtcc agcagcttgc ccctttatat gaaattgtca tctttacgtc 600
agagactggc atgactgcgt ttccactcat tgatagtgtg gacccccatg gcttcacttc 660
ctaccgccta ttccgggacg ccacaagata catggatgga caccatgtaa aggatatttc 720
atgtctgaat cgggacccag ctcgagtagt agttgtggac tgcaagaagg aagccttccg 780
cctgcagccc tataacggcg ttgccctgcg gccctgggac ggcaactctg atgaccgggt 840
cttggttgat ctgtctgcct tcctcaagac cattgcactg aatggtgtng gaggacgtng 900
cgaaccgtgc tgggagcatt atgccctngg ganggatnga ccccgctggg cggcttttgc 960
aaacagcggc aaancgggct tagaagcagg gagga 995

```

<210> 162

<211> 1125

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (972)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1023)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1077)

<223> n equals a,t,g, or c

<400> 162

```

gccctagtac ggtccggaat tcccgggtcg acccacgcgt ccgcccacgc gtccgcgctg 60
gtgttgcggc gctggcgaca gtcggggttg cgagcggccc ggggccgggg cggccagggc 120
cgctgcagga cgagaccctg ggtgtggcgt ccgtgccctc gcagtggagg gccgtccagg 180
gcatccgcgg ggagacgaaa agttgccaga cggccagcat tgccactgcc agtgcacccg 240
cccaggccag gaatcatgtg gacgcccagg tgcagacgga ggccccctg cctgtcagcg 300
tgcagcccc gtccagtay gacataccca ggctcgcagc ctttcttcgg agagtggagg 360
ccatggtcat ccgagagctg aacaagaatt ggcagagcca cgcgtttgat ggcttcgagg 420
tgaactggac cgagcagcag cagatggtgt cttgtctgta taccctgggc taccgccag 480
cccaagcgca gggctctgcat gtgaccagca tctcctggaa ctccactggc tctgtggtgg 540
cctgtgccta cggccggctg gaccatgggg actggagcac gcttaagtcc ttcgtgtgtg 600
cctggaacct ggaccggcga gacctgcgtc cccagcaacc gtcggccgtg gtggagggtc 660
ccagcgtgt cctgtgtctg gccttcacc ccacgcagcc ctcccagtc gcaggagggc 720
tgtacagtgg tgagggtgtg gtgtgggacc tgagccgtct tgaggacctg ctgctgtggc 780

```

```

gcacaggcct gacggatgac acccacacag accctgtgtc ccagggtggtg tggctgccc 840
agcctgggca cagccamcgg ttycagggtgc tkagtgtggc cacygacggg aaggtgctac 900
tctggcargg catcggggta rgccagctgc agttcacaga rggcttcgcc tggttcatkc 960
agcagctgcc anggagcacc aagctcaaga agcatccccg cgggagaccg aggtggggcg 1020
canggcaggc tttcttccag tttgacctca ggttttcatt ttggcaggaa gcggttnccg 1080
ttcaattttc ctggcattgg agagcagcct taaggggtgc ccatt 1125

```

<210> 163

<211> 423

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<400> 163

```

gggtcgacc acgcgtccga gatggcggtt cgcagcaaga ggccggagca cggcggggcc 60
ccggagctgt tttatgacaa gaatgaagcc cggaaatacg tgcgcaactc acggatgatt 120
gatgtccaga ccaaaatggc tggcgagct ttggagctcc tttgtctgcc ggaggtcagc 180
cctgttacct cttgatatt ggctgtggtt ctgggctgag tggagattat ctctcggtg 240
aagggcacta ctgggtaggc atcgacatca gccctgccat gctggatgag gccttgacc 300
gagacactga gggagacctg cttctggggg acatgggcca gggcatcccc ttcaaaccag 360
kttcattgat ggatgtatca gcattctgcn aatcagtggc tctgtaatgc aaaccaagaa 420
gtc 423

```

<210> 164

<211> 1642

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1614)

<223> n equals a,t,g, or c

<400> 164

```

acccacgcgt ccggcggtcg gcggagcaga acggattgca gggtcagcca tgtcatctga 60
gcctccccca ccaccacagc cccccacca tcaagettca gtcgggctgc tggacacccc 120
tcggagccgt gagcgctcac catccctctc gcgsggcaac gtggtcccaa gcccactgcc 180
cactcgccgg acgaggacct tctcggcgac ggtgcgggct tcacagggcc ccgtctacaa 240
aggagtctgc aaatgcttct gccggtccaa gggccatggc ttcattaccc cagctgatgg 300
cggccccgac atcttcctgc acatctctga tgtggaaggg gagtatgtcc cagtgggaag 360
cgacgaggtc acctataaaa tgtgtcccat cccacccaag aatgagaagc tgcaggccgt 420
ggaggctcgt atcactcacc tggcaccagg caccaagcat gagacctggt ctggacatgt 480
catcagctcc taggagatgg tggaagcacc ccttgtcctg tgcttggtgg agactttgag 540
gggaggaggc agcagacact ggagatgaca ttcttcaca cgagacgggg cttcagccgg 600
gcatggtccc tctcaagtat ctcttgagg aaggggtatg gggggcagg gtgggggtgtg 660
gggtgttccc ggccatcagc acagcctatg accattgcaa caacctctca ccatctgaag 720
agcattaaaa gcatttaaaa aggaragggtg cccactgggt gctgagtggg ggttccaacc 780

```

```
ccatcccagg gagtggatca aggggtggtat ttctccagct gctcagacac atgggctcaa 840
cccacagaat ccctcttcct cctggagctg gagggcccag attcccagat ctggccccct 900
ggcagcctga cagggacett gcgtgacttc tccaaggcaa atttccacct aagtgccctt 960
tgcgcctctc ctggggcctg ggcaaagcag ttttctaatt cttggcttggt ttgggtctag 1020
gggagctggc ttgaagtggg kggggaaagg cgggggtggc ggtctttgga ttggacggat 1080
gttgcccttt ggtgcctttg cagtgggagg cgcatagct gcctgtctgg ggaagacagt 1140
tctcccagca ctcccacccc tgggcacagc aggtgtgtac tgggaggctg aaccctctt 1200
agagcctgac cttttcatct gccttctggt tgtgtgacca tcaactcaaca gccatttcac 1260
agcccctgta attatggcgg cggggggctg ggggtgtggt ggtgggaagg gcttgtggag 1320
aggacacagt ctttgtttta aaactttgtc ccgatccatc cagaaaagag taggtagctt 1380
gcacccctgac agcctggcaa agtcaagaaa gttgaaggag aaacatacct ttggagaggg 1440
ggttttcttt aaaactagt ttaagaaatg cttagggatt ttttttttct tatttttcat 1500
aactaaagct ttcaccacaga gccggctctg tttgcacttt gctgccgaca ttgcaaactt 1560
tttggcaggg tgggagactg agtctcattc tgtcamccag gctggagtgc agtngcccga 1620
tctcagcttt actgcaacct ct 1642
```

<210> 165

<211> 1115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (390)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<400> 165

```
aggaatgccg agtactgcag gggctcccca gggagtatgt gaatgccagg cactgtttgc 60
cgtgccacce tgagtgtcag cccacagaatg gctcagtgac ctgttttgga ccggaggctg 120
accagtgtgt ggctgtgtcc catcaagtgg atggcgctgg agtccattct ccgccggcgg 180
ttcaccacac agagtgtatg gtggagttaa ggtgtgactg tktgggagct gatgactttt 240
ggggccaaac cttacgatgg gatcccagcc cgggaggatc cctgacctgc tggaaaaggg 300
ggagcggctg cccagcccc ccatctgcac cattgatgtc tacatgatca tggtaaaatg 360
ttggatgatt gactctgaat gtcggccaan attncgggag ttggtgtktg aattctcccc 420
catggccagg gacccccagc gctttgtggt catccagaat gaggacttgg gccagccag 480
tcccttgga cagacettct accgctcact gctggaggac gatgacatgg gggacctggt 540
ggatgctgag gagtatctgg taccacagca gggcttcttc tgtccagacc ctgccccggg 600
cgctgggggc atggtccacc acaggcaccg cagctcatct accaggagtg gcggtgggga 660
cctgacacta gggctggagc cykctgaaag aggaggcccc caggtctcca ctggcacctt 720
ccgaagggct ggctccgatg tattttratg tgacctggga atgggggag ccaaggggct 780
gcaaagcctc cccacacatg accccagccc tctacagcgg tacagtgagg accccacagt 840
acccctgccc tctragactg atggctacgt tggccccctg acctgcagcc cccagcctga 900
atatgtgaac cagccagatg ttcggcccca gcccccttcg ccccgagagg gccctctgcc 960
tgctgcccga cctgctggtg ccactctgga aaggscaaag actctctccc cagggaagaa 1020
tggggtcgtc aaagagtttt tgcccttggg ggtgccgtgg agaaccctga gtattgacac 1080
cccaggggag ggagcttgcc cttcagcccc acctt 1115
```


<210> 166
<211> 1066
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (739)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1023)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1025)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1042)
<223> n equals a,t,g, or c

<400> 166
gggcacgagn cacctgagcc ccttgctctg caccggctcc caggagggca cctccatgga 60
gggctcccgcc cccgctgccc ctgccagagc caggcaccct caagaccagt ctggtggcta 120
ctccaggcat tgacaagctg accgagaagt cccagggtgtc agaggatggc accttgcggt 180
ccctggaacc tgagccccag cagagcttgg aggatggcag cccggctaag ggggagccca 240
gccaggcatg gagggagcag cggcgaccgt ccacctcatc agccagtggg cagtggagcc 300
caacgccaga gtgggtcctc tcctggaagt cgaagctgcc gctgcagacc atcatgaggc 360
tgctgcagggt gctgggttcc cagtggagaa gatctgcacg gacaagggcc tgacggatga 420
gtctgagatc ctgcggttcc tgcagcatgg caccctggtg gggctgctgc ccgtgcccc 480
ccccatcctc atccgcaagt accaggccaa ctcgggcact gccatgtggt tccgcaccta 540
catgtggggc gtcatttatc tgaggaatgt ggacccccct gtctggtacg acaccgacgt 600
gaagctgttt gagatacagc ggggtgtgag atgaagccga cgaggggctc agtctagggg 660
aaggcagggc cttgggtccct gaggttccc ccatccacca ttctgagctt taaattacca 720
cgatcagggc ctggaacang cagagtggcc ctgagtgtca tgccctagag acccctgtgg 780
ccaggacaat gtgaactggc tcagatcccc ctcaaccctc aggctggact cacaggagcc 840

126

```

ccatctcttg ggctatgccc caccagagac cactgcccc aacactcga ctccctcttt 900
aagacctggg ytcagtgtg gccctcagt gccaccact cctgtgtac ccagcccca 960
gaggcagnaa rccaatgggt cactgttgcc cctaaaggg ggtttttgaa ccaaggggga 1020
aancnacggg gcctgggtcc cntttggaaa ggtttccct gggaaa 1066

```

<210> 167

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (635)

<223> n equals a,t,g, or c

<400> 167

```

gtcgcgagcg ctgccgtcgg gaggcgctcc gaggttcgag gctgtgcccc gcgaccccg 60
cttcggcgct cggctcgcag gatggatccc gtaccggga cagactcggc gccgctggct 120
ggcctggcct ggtcgtcggc ctctgcaccc ccgcccggg gkttcagcgc gatctcctgc 180
accgtcgagg gggcaccgcc agctttggca agagcttcgc gcagaaatct ggctacttcc 240
tgtgccttag ttctctgggc agcctagaga acccganga gaacgtggtg gccgatatacc 300
agatcgtggt ggacaagagc cccctgccgc tgggcttctc ccccgctcgc gamcccatgg 360
attccaaggc ctctgtgtcc aagaagaaac gcatgtgtgt gaarctgttg cccctkggar 420
ccamggacac ggctgtgttt gatgtccggc tgagtgggaa gaccaagaca gtgcctggat 480
accttcgaat aggggacatg ggcggctttg ccatctggtg caagaaaggc caaggccccc 540
aggccagttg cccaaagccc cgangtcctc agcccgggac atgcaagggc ttctctntgg 600
angcagccag ccagcccaag ttaagggcgg gcctncttgg aagccggaca agcgttc 657

```

<210> 168

<211> 1026

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1011)

<223> n equals a,t,g, or c

<400> 168

```

ggcacgagga gagatggagg ggcggcaggt gctggaggtc aagatgcagg tggagtacat 60
gtcattcagc gcacacgcgg acgccaaggg catcatgcag ctggtgggcc aggcagagcc 120
gkagagcgtg ctgctggtgc atggcgaggc caagaagatg gagttcctga agcagaagat 180
cgagcaggag ctccgggtca actgctacat gccggccaat ggcgagacgg tgacgctgcc 240
cacaagcccc agcatccccg taggcatctc gctggggctg ctgaagcggg agatggcgca 300
ggggctgctc cctgaggcca agaagcctcg gtcctgcac ggcaccctga tcatgaagga 360
cagcaacttc cggctggtgt cctcagagca agccctcaaa gagctgggtc tggctgagca 420
ccagctgcgc ttcacctgcc gcgtgcacct gcatgacaca cgcaaggagc aggagacggc 480
attgcgcgtc tacagccacc tcaagagcgt cctgaaggac cactgtgtgc agcacctccc 540
rgacggctct gtgactgtgg agtccgtcct cctccaggcc gccgcccctt ctgaggaccc 600
aggcaccaag gtgctgctgg tctcctggac ctaccaggac gaggagctgg ggagcttctt 660
cacatctctg ctgaagaagg gcctcccca gcccccagc tgaggccggc aactcaccca 720
gccgccacct ctgccctctc ccagctggac agaccctggg cctgcacttc aggactgtgg 780
gtgccctggg tgaacagacc ctgcaggctc catccctggg gacagaggcc ttgtgtcacc 840
tgcttgccca ggcagctgtt tgcagctgaa gaaacaaact ggtctccagg ctgtcttgcc 900
tttattcctg gttagggcag gtggtcctag acagcagttt ccagtaaaaag ctgaacaaaa 960
aaaaaaaaaa aaaaaattgg gggggggccc gttaccatt tggcctttag nggggggttt 1020
aaatta                                           1026

```

<210> 169

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (730)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (733)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 169

```

ggcataaaca tcgggtggtg ttcagatcct gctgccggca gctcgaggct aggatggctg 60
gagatgtgag ggcctttgtc tcatcacatc cgagcacagc tcagcaagat gctcttagct 120
agraaacaga ttttatgtgt taatgttaaa aattttgcag ttatttatct tgtggatatt 180

```

```
acagaagtgc ctgacttcaa caaaatgtat gagttatacg atccatgtac tgtcatgttt 240
ttcttcagga acaagcacat catgattgac ttggggactg gcaacaacaa caagattaac 300
tggggccatgg aggacaagca ggagatggtg gacatcatcg agacggtgta ccgcggggcc 360
cgcaaaargcc gcggcctggt ggtgtccccc aaggactact ccaccaagta ccgctactga 420
ggcgccctca gtctgcgcgg ataaatgtcg tggagccctt tttgtatgga aacgttttaa 480
gctattttaa gcctttggaa aatacaggaa gctccagggc tggagcacct ctgagatgga 540
attgataaca tgggtcttaac tcaccgaaat aaacaagcac gtggtgagag gagcaggcct 600
acttgtttgt tctcaggaaa cttaatgaat agattactga ttttcctagt caaagttaat 660
tcttaccctt ggagtaaaac gaaggtgttt atcctgtgag cctgtgcgtt ttgcatactg 720
ggttggtttt ctngggcctt ggtgacagca tatnccgcga gctgggcttt aaca 774
```

<210> 170

<211> 402

<212> DNA

<213> Homo sapiens

<400> 170

```
ggcacgagcg gcggtggggc ggacagccgg ggtgcgcact tgggcccccc tggccatggc 60
ggcgaagggtg gacctgagca cctccaccga ctggaaggag gcgaaatcct ttctgaaggg 120
cctgagtgac aagcagcggg aggaacatta cttctgcaag gactttgtca ggctgaagaa 180
gatcccgaca tgggaaggaga tggcgaaagg ggtggctgtg aagggtggag agcccaggta 240
taaaaaggca aagcagctca atgagaaaat ctccctgctc cgcagcgaca tcaccaagct 300
ggaggtggac gccatcgta acgcccga cagctccccg cccccgagga gcctaattaa 360
agatcttcgt tgtggcaaaa aaaaaaaaaa aaaaaaaaaa aa 402
```

<210> 171

<211> 796

<212> DNA

<213> Homo sapiens

<400> 171

```
aggcatcggg gacagccgct gcggcagact cgagccagct caagcccga gctcgcaggg 60
agatccagct ccgtcctgcc tgcagcagcc caaccctgca caccacccat ggatgtyttc 120
aagaagggtt tctccatcgc caaggagggc gtggtgggtg cgggtgaaaa gaccaagcag 180
ggggtgacgg aagcagctga gaagaccaag gagggggtca tgtatgtggg agccaagacc 240
aaggagaatg ttgtacagag cgtgacctca gtggccgaga agaccaagga gcaggccaac 300
gccgtgagcg aggctgtggt gagcagcgtc aacactgtgg ccaccaagac cgtggaggag 360
gcggagaaca tcgcggtcac ctccggggtg gtgcgcaagg aggacttgag gccatctgcc 420
ccccaacagg agggtgaggc atccaaagag aaagagggaag tggcagagga ggcccagagt 480
gggggagact agagggttac aggccagcgt ggatgacctg aagagcgctc ctctgccttg 540
gacaccatcc cctcctagca caaggagtgc ccgccttgag tgacatgcgg ctgcccacgc 600
tcttgccttc gtctccctgg ccacccttgg cctgtccacc tgtgctgctg caccaacctc 660
actgccttcc ctcggtccca cccaccctct ggtccttctg accccactta tgcgtgctgtg 720
aatttttttt ttaaatgatt ccaaataaaa cttgagccca ctyctaaaaa aaaaaaaaaa 780
aaaaaaaaag gggccc 796
```

<210> 172

<211> 478

<212> DNA

<213> Homo sapiens

<400> 172

```

aattcggcag agcctggttg cagggcagct aggggtctct gcattctcca catggtctca 60
tgcccccttt tgtcccttac aggaggactt gaggccatct gccccccaac aggagggtga 120
ggcatccaaa gagaaagagg aagtggcaga ggaggccag agtgggggag actagagggc 180
tacaggccag cgtggatgac ctgaagagcg ctccctctgcc ttggacacca tccccctcta 240
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tgggcaccct tggcctgtcc acctgtgctg ctgcaccaac ctcactgccc tccctcggcc 360
ccaccacccc tctggtcctt ctgacccac ttatgctgct gtgaattttt tttttaaatg 420
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```

<210> 173

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 173

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ctgcccttgg gatggggcgc tcctgaatgt acgtgggccc cgggtgtttac aaggagggtga 120
tcacttacaa cctctgccag aagcagggtg tggaagaagat accactgccc ttttttgcca 180
tgtccctgag cctgtccccc gggaccaccc tcctggctgt tggttttgct gagtgcattc 240
tgaggctggt agactgtgcc atggggactg cccaagactt tgccggccac gacaacgcag 300
tgcacctgtg caggttttaca ccttccgcca ggctgctctt cacggccgcc cgcaacgaga 360
tccttgtgtg ggaggtcccc ggcctctgag atgcagcagg gactgtggtg gtgggcatca 420
acgcctggtc atgccaggca cctggacaca ggcttggcag aggcgccagg ttgtcaatgg 480
cctcatgctg ggacaggcca ggattcacgt aaatcgccct gagcaagctg ttgtaaatgt 540
ggcgccctgt gaatacttct atacctgttg cccttttgcc taagaaatct ttaatgtttc 600
tatcttgtaa taaacatggg cattttattgc aaaaaaaaaa aaaaaaaaaa aaaaaa 656

```

<210> 174

<211> 1891

<212> DNA

<213> Homo sapiens

<400> 174

```

gagccccctc cgagagggga gaccagcggg ccatgacaag ctccaggctt tggttttcgc 60
tgctgctggc ggcagcgttc gcaggacggg cgacggccct ctggccctgg cctcagaact 120
tccaaacctc cgaccagcgc tacgtccttt acccgaacaa ctttcaattc cagtacgatg 180
tcagctcggc cgcgcascgg gctgctcagt cctcgacgag gccttccagc gctatcgtga 240
cctgcttttc ggttccgggt cttggccccg tccttacctc acagggaac ggcatacct 300
ggagaagaat gtgttggttg tctctgtagt cacacctgga tgtaaccagc ttcctacttt 360
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ggatgtcatg gcgtacaata aattgaacgt gttccactgg catctggtag atgatccttc 660
cttcccatat gagagcttca cttttccaga gctcatgaga aagggttcct acaaccctgt 720

```

```

caccacacac tacacagcac aggatgtgaa ggaggtcatt gaatacgcac ggctccgggg 780
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa g 1891

```

<210> 175

<211> 2161

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2160)

<223> n equals a,t,g, or c

<400> 175

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tgctccgcgc ggctgctgca gcaggaagaa gagattaaat ctctgactgc tgaaattgac 120
cggttgaaaa actgtggctg tttaggagct tctccaaatt tggagcagtt acaagaagaa 180
aatttaaaat taaagtatcg actgaatatt cttcgaaaga gtcttcaggc agaaaggaac 240
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attaaggctg catatccaga tttgaaaaat cctcctctgc tagtgacacc aagtcagcag 360
gccaaagtgt gggactatca rtgtaatagt gctatgggta tttctcagat gctcaaaacc 420
aaggaacaga aagttaatcc aagagaaatt gctgaaaaca ttaccaaaaca cctcccagac 480
aatgaatgta ttgaaaaagt tgaaattgct ggtcctgggt ttattaatgt ccacttaaga 540
aaggattttg tatcagaaca attgaccagt cttctagtga atggagttca actacctgct 600
ctgggagaga ataaaaagg ttaggttgac ttttcctccc ctaatatagc taaagagatg 660
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gcagggtatg acgtgctcag gttaaatcat gtaggagact gggggacmca gtttggcatg 780
ctcatcgctc acctgcaaga caaatttcca gattatctaa cagtttcacc tcctattggg 840

```

```

gatcttcagg tcttttataa ggaatctaag aagagggttg atactgagga ggaatttaag 900
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tggaagctta tctgtgatgt ctcccgccaa gagttaaata aaatctatga tgcattggac 1020
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a

```

<210> 176

<211> 2411

<212> DNA

<213> Homo sapiens

<400> 176

```

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gccagagaaa aaggtagaat ggacaagtga cactgtggac aatgaacaca tgggccgccg 180
ctcatcmaaa tgctgctgta tttatgagaa acctcggggc tttggcgaga gctccacgga 240
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gtctgtctgg ccctaaatgt atccatgtgg ctacttctcc agccccctcc ttccctctct 480
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tcgggtgccg t 2411
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<210> 177

<211> 1338

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1234)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1326)

<223> n equals a,t,g, or c

<400> 177

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attactaaca tctttttttt ttatgagaaa tacttttccc ataacaaaa aattcagtga 120
gcagaatggc cttgcttgag gtttttgcaa atctctcggg tgtctggctt agtgggaggc 180
agctgggccc tcatacctgc ctccgcactt cagctgtttg acataaaccc agcttcgtgt 240
```



```

gagtgaagag gaagggcctg gggaccctca gaggttctcg gaccacactt tgagaactcc 300
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ctttgtggag aaccgctggt gtctgaagcg ggtgtcagcc cactgcacc ttggtcttct 420
gggctgtcct gatgccgagg ccacttccc agccatgctg actttgcctc ttccccctcc 480
cagcagaaaa atggctacaa acttctagc acatgagaag atctgggtcg acaagttcaa 540
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tacggttatc cggaagctaa caatttcatg tgtngttgga ggacgacaag tgggggacaa 1260
cttgctggag gagganttca ccattttttna ggagcactgc aattttcaaa tcgcattttt 1320
caacanattt gaagcccg                                     1338

```

<210> 178

<211> 1614

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<400> 178

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cctctaaagc tgagagcttg attccagggc ctgccctgct cctgggtggca cccagtggcc 120
tgtactactg gtacctggtc accgagggcc agatcttcat cctcttcatc ttcaccttct 180
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aactgcggca cgngcttcgg gcagcctagc cacaggcttt gagcgcctgc attcctgggg 1260
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gggaagggtc ccacaggaag tcacagtggg gccagggat gtgtcagccc ccagccacgg 1500
ggacgcggga ttcaagaatg aagtaaatac agtcacagcc ccaaaaaaaaa aaaaaaaaaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 1614

```

<210> 179

<211> 4292

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4288)

<223> n equals a,t,g, or c

<400> 179

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caaacagacc aatctgagca agtgctttgg ttttgtagc tacgacaatc cagtctctgc 180
acaagctgct atccaaagcta tgaatggctt tcagatcggc atgaaacgct tgaagggtgca 240
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acctcacatc atatttggtt ctccactga cctttgatct agtttgacct ttgaaatttg 480
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gtttctttct tattttttt cttttcctaa aacagacttg aaagtattat acangggatt 660
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aacagtcaaa cttatttttg taatgtatgt tattgtgtga tgcagttttt tgcttctgtc 4200
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<210> 180

<211> 243

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<400> 180

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cagctcctcr cgccatcacc atcgccgccg ccgggttccac ctrccccaac agcccctgct 120
ccagagggaa gtgtggtgtg tgggcacaac gggaaacgct aaccaggcac agagctcaac 180
ggagcagaca ctgtgaagc ccaagtgaaga aaccacggcg ctttggcgtg taacntggaa 240
tat 243
```

<210> 181

<211> 813

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (726)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<400> 181

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aattcggcag agaccagggtg tacctgagct acaataacgt ctccctccttg aagatgcttg 60
tggccaagga caactgggtg ctgtcctcgg agatcagtca ggtccgcctg tacactctgg 120
aggatgacaa gttcctctcc ttccacatgg agatgggtgg gcatgtggat gcagmccagg 180
ccttcctgct gctctcggac ctgmgtcaga ggccagagtg ggacaagcac taccggagcg 240
tggagctagt gcagcaggta gacranggac gacgccatct accacgtcac cagmcctgmc 300
ctcggagggtc acacaaagcc ccaggacttc gtgatcctgg cctcgaggcg gaagccttgt 360
gacaatgggg acccctatgt catcgcgctg aggtcgggtca cgctgcccac acaccgagag 420
acgccagagt acagacgcgg agagaccctc tgctcaggct tctgcctctg gcgcgagggg 480
gaccagctga ccaaggtagc ctgtagtaga ctcggttcct gtccacagcc ctagctgcca 540
gcaatgctgt cctcacagag gcatagtcgc ccccagctgg gttgtgctcc actgtgacgg 600
tggccccggg ggaggatgcc agcagcctgc ctatggytgc cagctgtgct gtgagcccag 660
cagcatggcc tgcatctggg aagggaacaca ggttggtccag agcccctggc acaactgtg 720
agncanatgc tgtggagnca gctgttacc tgtaagccac tggcccagca cctgcctaca 780
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gggccagcct ggtggccaca gtgcacgtgg ggg

813

<210> 182

<211> 822

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<400> 182

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ggttttacat gaccgcagtc gccctcagtt tcaccngta ggaatcggnc tggggatgca 60
ccgtgctact ctcttcctcc aggccgggtcc ccggcgcggtg cgcgcgatcc atgtccatgt 120
ccgcgcctat caataaagtt gctcacttgt tgccggcccgc ctgmcgcaa aggttgcgcg 180
cgcagmccga gaagtctcgc gatagccagc cgcggctgcc cttgcgcttc ccgagctggc 240
ggggtcctgt gtgcgggatc gagattgcgg gctatggcgc cgaagttttt cgtcagtact 300
gggatatccc cgatggcacc gattgccacc gcaaagccta cagcaccacc agtattgcca 360
gcgtcgctgn cctgaccgcc gctgcctaca gagtcacact caatcctccg ggcaccttcc 420
ttgaaggagt ggctaagggt ggacaataca cgttcactgc agctgctgtc ggggcccgtgt 480
ttggcctcac cacctgcac agcgcccatg tccgcgagaa gcccgacgac cccctgaact 540
acttcctcgg tggctgcgcc ggaggcntga ctctgggagc acgcacgcac aactacggga 600
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tggagggtct ggagggtgtt gcaaaaccca aggtgtgagc cctgtgcctg ccgggacctc 720
cagcctgcag aatgcgtcca gaaataaatt ctgtgtctgt gtgtgaaaaa aaaaaaaaaa 780
aaaaaaaaat yggggggggg cccskaacca attkccetta ag 822

```

<210> 183

<211> 1095

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1082)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1094)

<223> n equals a,t,g, or c

<400> 183

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gccagttcca gcccgcaccc cgcgtcgggtg cccgcgcccc tccccgggcc ccgccatggg 120
cctcacctgtg tccgcgctct tttcgcggat cttcggaag aagcagatgc ggattctcat 180
ggttggcttg gatgcggctg gcaagaccac aatcctgtac aaactgaagt tgggggagat 240
tgtaaccacc atcccaacca taggcttcaa tgtagaaaca gtggaatata agaacatctg 300
tttcacagtc tgggacgtgg gaggccagga caagattcgg cctctgtggc ggcactactt 360
ccagaacact cagggcctca tctttgtggt ggacagtaat gaccgggagc gggccaaga 420
atctgctgat gaactccaga agatgctgca ggaggacgag ctgcgggatg cagtgtgtgt 480
ggtatttgcc aacaagcagg acatgcccac cgccatgccc gtgagcagc tgactgacaa 540
gctggggcta cagcacttac gcagccgcac gtggtatgtc caggccacct gtgccacca 600
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tcccggactc ctacggcagt gccctttcct cccacttttc ctccccata gccacaggcc 780
tctgtcctg ctctgcctg catgttctct ctggtgttg agcctggagc cttgtctct 840
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tgtactctag gggccaggtt gggaggggga aggtgagggc ttcgggtggt gctataatgt 1020
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gnngggggcc ccgna 1095
```

<210> 184

<211> 3675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3329)

<223> n equals a,t,g, or c

<400> 184

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tcgtgtctaa tggaaacccc ctgtgcatg cacagctccg gcagctccca gcgatgacgg 120
ccctgcagac cctgcacctg cggagaccca gcgcacccag agcaacctgc ccaccagcct 180
ggagggctct agcaacctc cagacgtgga tctgtcctgc aatgacctga cacgggtgcc 240
cgagtgtctg tacaccctcc ccagcctgcg ccgcctcaac ctcagcagca accagatcac 300
ggagctgtcc ctgtgcatag accagtgggt gcacgtggaa actctgaacc tgtccccaaa 360
tcagctcacc tcactgcct cagccatttg caagctgagc aagctgaaga agctgtacct 420
```

```

gaattccaac aagctggact ttgacgggct gccctcaggc attggcaagc tcaccaacct 480
ggaagagttc atggctgcc aacaacaacct ggagctggtc cctgaaagtc tctgcagggtg 540
cccaaagctg aggaaacttg tcctgaacaa gaaccacctg gtgacctcc cagaagccat 600
ccatttcctg acggagatcg aggtcctgga tgtgcgggag aacccaacc tggatcatgcc 660
gccaagccc gcagaccgtg ccgctgagtg gtacaacatc gacttctcgc tgcagaacca 720
gctgcggcta gcgggtgcct ctctgctac cgtggctgca gctgcagctg cgggagtggtg 780
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<210> 185

<211> 1040

<212> DNA

<213> Homo sapiens

<400> 185

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caggagccat gcagctgtgc tgggtgatcc tgggttcct cctgttccga ggccacaact 120
cccagccac aatgaccag acctctagct ctgaggagg ccttggcggc ctaagtctga 180
ccacagagcc agtttcttcc aaccagagat acatcccttc ctgagaggct aacaggccaa 240
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<210> 186

<211> 817

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<400> 186

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accacacgct ccgcangagc ggccgggtgg cgggaggaac cgttacggga actgaagttg 120
cggattaagc ctgatcaaga tgacaacctc ccaaaagcac cgagacttcg tggcagagcc 180
catgggggag aagccagtgg ggagcctggc tgggattggt gaagtcctgg gcaagaagct 240
ggaggaaaag ggttttgaca aggcctatgt tgtccttggc cagtttctgg tgctaaagaa 300
agatgaagac ctcttccggg aatggctgaa agacacttgt ggcgccaacg ccaagcagtc 360
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ccgggcccca tccctcacc ccacctcac tttcaatccg tttgatacca tttggctcct 720
tttttggcag aacagtcact gtccctgtaa agttttttag atcaataaag tcagtggctt 780
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 817

```

<210> 187

<211> 1080

<212> DNA

<213> Homo sapiens

<400> 187

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ctgccctgct gctggaacac cgagccagcc tgagcgctaa ggaccaagac ggctgggagc 60
gctgcacgcc gcggtacttg gggccaggtg cctggtggag ctgctcgtgg cgcacggggc 120
cgacctgaac gcaaagtccc tgatggacga gacgccctt gatgtgtgcg gggacgagga 180
ggtgcgggcc aagctgctgg agctgaagca caagcacgac gccctcctgc gcgcccagag 240
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gaggcggtg agcctaacc agcgcaccga cctgtaccgc aagcagcacg cccaggaggc 360
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ccagacaggc gcagagctca ggccgcccgc cccggargag gacaaccccg aagtggtcag 480
gccgcacaat ggccgagtag ggggctcccc agtgcggcat ctatactcca agcgactaga 540
ccggagtgtc tcctaccagc tgagccccct ggacagcacc acccccaca ccctggtcca 600
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<210> 188

<211> 1286

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
<222> (1245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1254)
<223> n equals a,t,g, or c

<400> 188
gcatgattct tgtttttag agatgcaggc tcaaaaagta atgcatgttt cttcagcaga 60
actgaattat tcaactgccat atgactctaa acaccaaata cgtaatgcct ctaatgtaaa 120
gcaccatgac tctagtgtc ttggtgtata ttcttacata ccttttagtg aaaatcctta 180
tttttcatca tggcctccaa gtggtaccag ttctaagatg tctcttgatt tacctgagaa 240
gcaagatgga actgtttttc cttcttctct gktgccaaaca tcctctacat cctcttctc 300
ttattacaat tcacatgatt ctttatcact gaattctcca accaatattt cctcactatt 360
gaaccaggag tcagctgtac tagcaactgc tccaaggata gatgatgaaa tccccctcc 420
acttcctgta cggacacctg aatcatttat tgtggttgag gaagctggag aattctcacc 480
aaatgttccc aaatccttat cctcagctgt gaaggtaaaa attggaacat cactggaatg 540
gggtggaaca tctgaaccaa agaaatttga tgactctgtg atacttagac caagcaagag 600
tgtaaaactc cgaagtccata aatcagaact acatcaagat cgttcttctc ccccacctcc 660
tctcccagaa agaactctag agtccttctt tcttgccgat gaagattgta tgcaggccca 720
atctatagaa acatatctta ctagctatcc tgacaccatg gaaaattcaa catcttcaa 780
acagacactg aagactcctg gaaaaagttt cacaaggagt aagagtttga aaattttgcg 840
aaacatgaaa aagartatct gtaattcttg cccaccaaac aagcctgcag aatctgttca 900
gtcaaataac tccagctcat ttctgaattt tggttttgca aaccgtttt caaaaccaa 960
aggrccaagg aatccaccac caacttgga tatttaataa aactccagat ttataataat 1020
atgggctgca agtacacctg caaataaaac tactagaata ctgctagtta aaataagtgc 1080
tctatatgca taatatcaaa tatgaagata tgctaagtgt ttaatagctt ttaaaagaaa 1140
agcaaaatgc caataagtgc cagttttgca ttttcatatc atttgcatg agttgaaaac 1200
tgcaaaataa agtttgtcac ttgagcttat gtacagaatg ctatntgggg aacnctttta 1260
ggatgggttt tatttttcca tttttg 1286

<210> 189
<211> 1738
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1480)
<223> n equals a,t,g, or c

<400> 189
gcggcgccct cggagccaaa ggcgcgcggc ggacacggcg gggccctcgc gcgcctggag 60
acgatgccaa agctgcaggg cttcgagttc tggagccgca ccctgcgagg ggcccggcac 120
gtcgtggccc ccatggtgga ccagagcgag ctggcctgga ggctgctgag ccggcgccac 180
ggggcacagc tctgtacac gcccatgtg catgccagag tctttgtccg cracgccaac 240
taccggaagg agaacctgta ctgcgaggtg tgccccgagg accggcccct catcgtgcag 300
ttctgtgcca atgaccgga ggtgtttgtt caggcggtc tcctgggtca ggattactgt 360
gacgccattg acctgaactt gggctgcccc cagatgatag ccaagagagg tcaactatgc 420

```
gcctttctgc aggacgagtg ggacctgctc caaagaatga ttttgctggc ccacgagaaa 480
ctctctgttc ctgtcacgtg caaaatccgt gtcttcccg agattgacaa gaccgtgagt 540
acgcccagat gctggagaag gccggctgcc agttgctgac ggtgcacgga cgcaccaagg 600
agcagaaggg gccctgtctg ggtgcagcgt cctgggagca tatcaaggct gtgcggaagg 660
ctgtggccat ccctgtgttt gctaaccgga acatccagt cctgcaggac gtggagcgt 720
gcctccggga cacgggtgtg cagggcgtca tgagcgaga gggcaacctg cacaacccc 780
ccctgttcga gggccggagc cctgccgtgt gggagctggc cgaggagtat ctggacatcg 840
tgcgggagca cccctgcccc ctgtcctacg tccgggcccc cctcttcaag ctgtggcacc 900
acacgctgca ggtgcaccag gagctgcgag aggagctggc caaggatgaag accctggagg 960
gcatcgctgc tgtgagccag gagctgaagc tgcggtgtca ggaggagata tccaggcagg 1020
agggagcgaa gccaccggc gacttgccct tccactggat ctgccagccc tacatccggc 1080
cggggcccgagg gagggggagc aaggagaagg caggtgcgag cascaagcgg gccctggagg 1140
aaggaggagg tggcacggag gtctgtcca agaacaagca aaagaagcag ctgaggaacc 1200
cccacaagac cttcgacccc tctctgaagc caaaatatgc aaagtgtgac cagtgtggaa 1260
acccaaaggg caacagatgt gtgttcagcc tgtgccgcgg ctgctgcaag aagcgagcct 1320
ccaaagagac tgcagactgc ccaggtcacg gattgctttt taaaaccaa ttggagaagt 1380
ctctggcctg gaaagaggcc cagcctgagc tgcaggagcc tcagccagca gcacctggaa 1440
caccagggtg cttctccgaa gtcatgggca gtgccctggn ctgaaggccc acaaccccca 1500
ccccaggac tgcctgtgga gcctggacac gtcctactta agaaaatgcc ttttactcag 1560
ggaatctcct gctacttaat gtggaaagac acgcccattg ccccttcgc cactctggg 1620
ggcctggaaa tgcctgcagt gggagcaggc ccaggtgg acctgccctg tcctcagcac 1680
gcgtgtgcaa aagtgaacaa taaatcattt caaagatgaa aaaamaaaaa aaaaaaaa 1738
```

<210> 190

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1875)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1910)

<223> n equals a,t,g, or c

<400> 190

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agcacatcaa atgccccac tccaagtacg ggtgcacgtt catcggaac caggacactt 60
acgagaccca cctggagact tgccgttcg agggcctgaa ggagtttctg cagcagacgg 120
atgaccgctt ccacgagatg cacgtggctc tgcccagaa ggaccaggag atcgcttcc 180
tgcgctccat gctgggaaag ctctcgga agatcgacca gctagagaag agcctggagc 240
tcaagtattga cgtcctggac gaaaaccaga gcaagctcag cgaggacctc atggagtcc 300
ggcgggacgc atccatgtta aatgacgagc tgtcccacat caacgcgcgg ctgaacatgg 360
gcatcctagg ctctacgac cctcagcaga tcttcaagtg caaagggacc tttgtgggcc 420
```

```
accagggccc tgtgtggtgt ctctgcgtct actccatggg tgacctgctc ttcagtggct 480
cctctgacaa gaccatcaag gtgtgggaca catgtaccac ctacaagtgt cagaagacac 540
tggagggcca tgatggcatc gtgctggctc tctgcatcca ggggtgcaaa ctctacagcg 600
gctctgcaga ctgcaccatc attgtgtggg acatccagaa cctgcagaag gtgaacacca 660
tccggggcca tgacaacccg gtgtgcacgc tggctctctc acacaacgtg ctcttcagcg 720
gctccctgaa ggccatcaag gtctgggaca tcgtgggcac tgagctgaag ttgaagaagg 780
agctcacagg cctcaaccac tgggtgcggg ccctggtggc tgcccagagc tacctgtaca 840
gcggctccta ccagacaatc aagatctggg acatccgaac ccttgactgc atccacgtcc 900
tgacagacgc tgggtggcagc gtctactcca ttgctgtgac aaatcaccac attgtctgtg 960
gcacctacga gaacctcatc cacgtgtggg acattgagtc caaggagcag gtgcggaccc 1020
tcacgggcca cgtgggcacc gtgtatgccc tggcggtcat ctcgacgcca gaccagacca 1080
aagtcttcag tgcattctac gaccggtccc tcagggtctg gagtatggac aacatgatct 1140
gcacgcagac cctgctgcgt caccagggca gtgtcacgcg gctggctgtg tcccggggcc 1200
gactcttctc aggggctgtg gatagcactg tgaaggtttg gacttgctaa caggatccag 1260
gccaggctgt ggtttccctc gaaccagccc tggacctttc tgagccaggc tggccacatg 1320
gggtggtctc ggggtttctg cctgccccgt gggcataggt ggacaggctc tggcagcccg 1380
gcagtgcctt ccccgctcca tgctcggcga gcctccctct actcggcact gtccctgtctg 1440
cccagccctt ctctgggtgc caggtagcag gcttgccccg gcccaccctc catccccacc 1500
ctccatcccc accctagatg gagcgagggc ctttttactc accttttcta ccgtttttag 1560
actgtatgta gatttggtta cctcctggtt gaaataaatg ctccacagac tgtggctgtg 1620
agtggggaca gtcctcggg acaagggggc tgtgtgtggc cttgaggttg gtgtgcacag 1680
gcactggctg ctgtgagtg gggggcatgg ggcagtttcc tttggtggac ccaggaytt 1740
cgsgccamtg cggggsctcc cctccctgct aggaggcaca ccctcagagg agctgcaagc 1800
ccgtggctgc ctgctacatg ccctgcttnc acgtggctgc acgctgacac acccacattc 1860
accaaaccga cccgngccct gggacgcaac cacgccagga ggaggacacn ggccgccgag 1920
agc 1923
```

<210> 191

<211> 250

<212> DNA

<213> Homo sapiens

<400> 191

```
ccaagtgtgt tgatacatta agctatgaga catctaaaat aatgaaactt ggaacttagt 60
ggaacatgta catgttttca gcatacttaa acccaaaaat cattaatttt cagaacttaa 120
tcagtgtctt tacatttggt ttttctttta tgctagtgg aaatggagga tgaaratata 180
attgrtgtgt tccaacagca gacgggrggt gtctactgaa aagggaacct gcttctttac 240
tccagaactc 250
```

<210> 192

<211> 1902

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1898)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1900)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1901)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1902)

<223> n equals a,t,g, or c

<400> 192

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ngggacgntg gtagaccanc gcgtaccgct gagtcaratt ttggcatcaa cttgaagggc 60
ccaaaaatca aaggaggtgc ggatgtttca gggggtgtca gtgccccara catcagcctt 120
ggtgaagggc atttragtgt taaaggttcc gggggtgagt ggaagggacc ccaagtctcc 180
tctgctctca acttgacac atctaagttt gctgggggcc ttcatttctc aggaccaaag 240
gtggaaggag gtgtgaaagg aggtcagatt ggactccagg ctccctgggt gagtgtgtct 300
gggcctcaag gtcacttga aagtggatct ggaaaagtaa cattccctaa aatgaagatc 360
cccaaattta ccttctcttg ccgtgagctg gttggcagag aaatgggggt ggatgttcac 420
ttccctaaag cagaggccag catccaagct ggtgctggag acggcgagtg ggaagagtct 480
gaagtcaaac tgaaaaagtc caagatcaaa atgcccaggt ttaatttttc caaacctaaa 540
gggaaaggtg gtgtcactgg ctaccagaa gcatcaattt ctgggtccaa aggtgacctg 600
aaaagttcaa aggccagcct gggtctcttg gaaggagagg cagaggccga agcctcttca 660
ccgaaaggca aattctcctt atttaaaagt aagaagccac ggcaccgctg caaattcatt 720
cagtgatgaa agagagtctt ctggaccttc caccgcgacg ggnacgctgg agtttgaagg 780
tggggaagtg tctctggaag gtgggaaagt taaagggaaa cacgggaagc tgaaattcgg 840
tacctttggt ggattggggc caaagagcaa aggtcattat gaggtgactg ggagcgatga 900
tgagacaggc aagttacagg ggaagtgggt gtccctggcc tctaagaagt cccgactgtc 960
ctcctcttct agcaatgaca gtgggaataa ggttggcatc cagcttcccg aggtggagct 1020
```

146

```
gtcagtttcc acaaagaaag agtagcaggc ctttgtatgt gtgtacatat atatatatat 1080
aacaaaacat cagccttggg tgggtgtgttc ctatataaac tccaaaggga aacacaccga 1140
ctgcctcagc aatcatgcaa agaccttgcc tggcccgggtg gcaagcgctg aaaaaccgac 1200
cgcctgtagg ctccctggaac tatacagata ggtaaagagt tccaagttcg tccagcccat 1260
gtgcaaagtc aacagtatct gccttaagat ttcatatata tatatctttt tgcattgact 1320
gctgagagct cctgtttact aagcaagctt ttgtgtttat taccctcatt tttactgaac 1380
attgttagtt ttggggtaat ggaaaccac tttttcattg taatgacttt gggggccttt 1440
gttagtaagg gtgggtgggg tgatgggtg cagacggagg tcaggtcttc ctctttcctg 1500
agactggatc tgttcaaaca gcaaacgcc acagatggcc cagaggtggt ggtagtcagg 1560
gtgtgtgggt gtttttaggg ttcttttagt ttgtttcttt caccagggg tgggtgtccc 1620
agccagtgtg gtgctgacgg tgagaggaaa ttagaatctg tttgcaaatt gtccaacca 1680
ccccctcaac atgaggggct tccattttct gtgttttgta agggaaactgt ttccttcatg 1740
ccgccatgtt cctgatatta gttctgattt ctttttaaca aatgttatca tgattaagaa 1800
aatttccagc actttaatgg ccaattaact gagaatgtaa gaaaattgaw gctgtacaag 1860
gcaaataaag ckgttattaa cctgaaaaaa aaaaaanan nn 1902
```

<210> 193

<211> 560

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<400> 193

```
ttttgcttaa agctatttan gtgacactat agaaggtacg cctgcaggta ccggtccgga 60
attcccgggt cgaccacgc gtccggggtt gcagacggag gtcaggctct cctctttcct 120
gagactggat ctgttcaaac agcaaagcc cacagatggc ccagaggtgg tggtagtcag 180
gggtgtgtgg tgtttttagg gttcttttagt gttgtttctt tcaccaggg gtgggtgtcc 240
cagccagttt ggtgctgacg gtgagaggaa attagaatct gtttgcaaat tgtccaaccc 300
acccctcaa catgaggggc ttccattttc tgtgttttgt aagggaactg tttccttcat 360
gccgccatgt tcctgatatt agttctgatt tcttttaaac aaatgttatc atgattaaga 420
aaatttccag cactttaatg gccaattaac tgagaatgta agaaaattga tgctgtacaa 480
ggcaataaaa gctgtttatt aaccttgaaa aaaaaaaaaa aaaggggngg cccgncccat 540
```

tgccctaggg ggggttaant

560

<210> 194

<211> 590

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<400> 194

ctgcaggtac cgggtccgga ttccgggtcg cccacgcgtc aggcggcggc gatgaccttc 60
tgccggctgc tgaaccgggtg tggcgaggcg gcgcggagcc tgcccctggg cgccaggtgt 120
ttcgggggtgc ggggtctcgcc gaccggggag aaggtcacgc aactggcca ggtttatgat 180
gataaagact acaggagaat tcggtttgta ggtcgtcaga aagaggtgaa tgaaaacttt 240
gccattgatt tgatagcaga gcagcccgtg agcgaggtgg agactcgggt gatagcgtgc 300
gatggcggcg ggggagctct tggccacca aaagtgtata taaacttggg caaagaaaca 360
aaaaccggca catgcggtta ctgtgggctc cagttcagac agcaccacca ctagagcgtg 420
tggcacgccc ggggtcccgc agcatcctgt gagcatttcc gcggggaagc tgagcacgtg 480
aagctcgctg gttctgtgcg aagggtattc ctggtgctga ataaagggtg ttgctgtcaa 540
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaann 590

<210> 195

<211> 691

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (579)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<400> 195

```
attggcatcn tctgaaagcg ttttagacag gcagaatctc tgggtctcccc tctctgcatt 60
ccccaccagc tgaatgaatg agaatctgca tttcttgaga tcataagaat actgacatac 120
agatgagata aaactcatgt gaatatcagt ttttaaggctg gtgggttcatt tgttttgggc 180
atattgagtc aggattgact aatgaactgt agaggttttg cattatgcaa atgctcttaa 240
tttcttgatg taggaattag acgctcccc ccaagtctta aataatgttt taatctgtat 300
ccttttatta taagaagatt agtaatatc tacagataat aacaacaact ggtatagtat 360
atatttatta cattcttcat tcttaggaga aaatgctgag aagcttctgc agttcaagcg 420
ttgggtcttg tcaatagtag agaagatgag catgacagaa cgacaagatc ttgkttactt 480
ttggacwtca agcccatcac tgccagccag tgaagaagga ttccagccta tgccctcaat 540
cacaatawga ccaccagatg accmacatct tcctactgna aaatacttgc atttcttgga 600
ctttaccttc ccactctntt cctttaaaca ggattcttna aaccggaaat tgggtanctc 660
gccatttagg anccaaaaat tttgggtttt g 691
```

<210> 196

<211> 1772

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1749)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 196

```
gnataatgct ggccattttg ctttctgac atttccttgg gaatctgcaa gaacctcccc 60
tttcccttcc cmcaataaga ccatttaagt gtgtgytaaa caactacrga atactaaata 120
aaaagtttgg ccaaaaccaa ccatgaagct gcaaagggtgc ttgctcttac tstttcaaat 180
```



```
ttttgcaact ctartgtctc acttttaaaag gaacagcttg attgcaaagg agaaaataga 240
taagcaatga akttatctcc aacttcctaa aggccttatga cttctaaaaa gtgaatctat 300
cagcattcca catcagattt aaagcatcaa atgcctgtga aacagcaaag atggttgaag 360
attgtgctca ttatgtttgt ggagtgtga ttgattcaca gtagataacg ctggcagtaa 420
gagaaatcaa atgctaagag ttgttgaagc agaaggcggc tgattgttg taagtcagt 480
cagttgcata agcagtgtcg tcagaattgg ttgtgtgcag gcaatagatt ttgccttcaa 540
gggttcctgt ggatctcagg aaggcatcag tgttgattaa cactcataac tagggagtga 600
stggtagtta cttaagtaat tgaccaaag gaaaagggga agtaattaag gaaatttgta 660
agtggaggta gtcaggargt tctygtggtt cttacayag attttacagc tttggstttc 720
attttgttta gctaaagtca tggggacaac tcttcaattt agaacttaag ttgaattata 780
aaaatgatgg atataagtgg tagctgtatc tagtgaagt tctgtcagta agtgaaacat 840
tttttggtgg tggcttatcc acaaacagtt tagttgtaga ataaaactta tgagtacat 900
ctggaaagta accatgctaa gatggcaagc aactggaaa caattaggcc acttggttt 960
cttttgctgt attgttttat aagcctactt tacctcccag tcttggaac aagttttagt 1020
tttttattgg tttggagact agagccaata gtataatgtt ctcaaaggaa acagacttga 1080
gttggttgat tagaggaact aacccaactt atatgatttt ttttttgtt ttgtcgtgta 1140
gttatggcac tgtcttattt ggaacatttg caactaggga taatacaaca tttttaactc 1200
tcatttgaca acctactact aatcacagac cacaagggtg atgaccaa attggtggtt 1260
tttgactccc atagttgtct tagcccaatc tttctatact cttacgatta cttgggttaa 1320
cgcytctgtg aggaccttct ggctcttgag ataccctaaa tatttaagat atttagatat 1380
cttgaagata gtataggata tagagattgt accaaatagg aatataagga gtatgttaa 1440
atgaccagat acctgtttga tagtttactg acctagcaga tgtgtggaaa aggaatcaga 1500
tcttgattct tctgggttta tactggttgt aaaacagaat gatacagaaa atgttttcct 1560
tgtttaactg gtagttgaac atagaacttg ggtattatag atcacttttc actttttgga 1620
atgttttga ttgaaactta ataaaacttt aacatggcaa aaaaaaaaaa aaaaaaaaaa 1680
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1740
aaaaaagana aaaaaaaaaa ggggggccnc cc 1772
```

<210> 197

<211> 675

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (671)

<223> n equals a,t,g, or c

<400> 197

```
accacgcgt ccggaacttc tcttcgttaa gtcggccttc ccaacatggc gcagtctatt 60
aacatcacgg agctgaatct gccgcagcta gaaatgtca agaaccagct ggaccaggaa 120
gtggagtctt tgtccacgtc cattgctcag ctcaaagtgg tacagaccaa gtatgtggaa 180
gccaaaggact gtctgaacgt gctgaacaag agcaacgagg ggaaagaatt actcgtccca 240
ctgacgagtt ctatgtatgt ccctgggaag ctgcatgatg tggaacacgt gctcatcgat 300
gtgggaactg ggtactatgt agagaagaca gctgaggatg ccaaggactt cttcaagagg 360
aagatagatt ttctaacc aa gcagatggag aaaatccaac cagctcttca ggagaagcac 420
```

```

gccatgaaac aggccgtcat ggaaatgat agtcagaaga ttcagcagct cacagccctg 480
ggggcagctc aggctactgc taaggcctga gagtttttgc agaaatgggg cagagggaca 540
ccctttgggc gtggcttcct ggtgatggga agggctctgt gttttaatgc caataaatgt 600
gccagctggg caraaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaccccnggg 660
gggggcccgg naccc                                     675

```

<210> 198

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (492)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 198

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tttaggtgac acgtatagaa ggtcgctgc aggtaccgwg ccggaattcc gggtcgaccc 60
acgcgtccgg gaacacaaga tgccgaaggg aagaaggcga aggggaagaa ggtggccccg 120
gcccccgccg tcgtgaagaa gcaggaggcc aagaaggtgg tcaaccgct gttcgagaag 180
cggcccaaga acttcggcat cggtcaggac atccagcca agcgggacct gacgcgcttc 240
gtcaagtggc cgcgtacat ccggctgcag cggcacgcgc gatcctctac aagcggctga 300
aggtgcccgcc cgccatcaac cagttcacgc aggcgctgga ccgccagacg gccacgcagc 360
ttgcttgaa ctggcgcaac attaccggcc cgagacgaag caggagaaga agcagcggtt 420
gttgccccgg gcggaagaaga aarcggccgg ncaaggggga nttncgaac aagcggsgcc 480
cggtgtntntc gnaancgggg ttgaaaacgg ttcaacaagt tggttgagaga acaagaaggc 540

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gccattgggtt cggttatt

557

<210> 199

<211> 2611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2585)

<223> n equals a,t,g, or c

<400> 199

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cgacaaggac tggaggcccc gctgtacctc acccccagagg gctgggtccct cttcctccag 120
cgctactacc aagtgggtcca cgaaggggca gaactcaggc acctcgacac tcaggtccag 180
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gatcgcaaca tctggatcgt gaagccagga gccaaagtccc gcggacgagg catcatgtgc 300
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gacctcagac agtggttcct ggtaactgac tggaaaccac ttaccgtgtg gttctaccgc 480
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```

```

gggccaggtc ctcagacgac agcacagcaa gctggtgggc actaaggccc tgctgaccac 1440
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catccataag ccacaaccac tggagaaant tttgcactgn ttagtgtagt tggttgaatg 2580
tgggnccccg gaaagagatg ttacttgga c 2611

```

<210> 200

<211> 2316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2302)

<223> n equals a,t,g, or c

<400> 200

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ggcacgagga aacatggagt cctgtaggca aggtcttacc tgaatcagga tgagggagtg 60
gtgggtccag gtggggctgc tggccgtgcc cctgcttgct gcgtacctgc acatcccacc 120
ccctcagctc tcccctgccc ttcactcatg gaagtcttca ggcaagtttt tcaattacaa 180
gggactgcgt atcttctacc aagactctgt ggggtgtggtt ggaagtccag agatagtgtg 240
gcttttacac ggttttccaa catccagcta cgactggtac aagatttggt aaggtctgac 300
cttgagggtt catcgggtga ttgcccttga tttcttaggc tttggcttca gtgacaaaacc 360
gagaccacat cactattcca tatttgagca ggccagcatc gtggaagcgc ttttgcgcca 420
tctggggctc cagaaccgca ggatcaacct tctttctcat gactatggag atattgttgc 480

```

```

tcaggagctt ctctacaggt acaagcagaa tcgatctggt cggcttacca taaagagtct 540
ctgtctgtca aatggaggtg tctttcctga gactcaccgt ccactccttc tccaaaagct 600
actcaaagat ggaggtgtgc tgtcacccat cctcacacga ctgatgaact tctttgtatt 660
ctctcgaggt ctcaccccag tctttgggcc gtatactcgg ccctctgaga gtgagctgtg 720
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gctgaatact ttttttttaa agccacattt cattgtctta gtcaaagcag gattattaag 2160
tgattattta aaattcggtt ttttaaatga gcaacttcaa gtataacaac tttgaaactg 2220
gaataagtgt ttattttcta ttaataaaaa tgaattgtga caaaaaaaaa aaaagggccn 2280
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```

<210> 201

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1145)
<223> n equals a,t,g, or c

<400> 201
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aaggtacagt cgcccggtgc ggagcttgtt actggttact tggcctcatg gcggtccgag 120
cttcgttcga gaacaactgt gagatcggct gctttgcca gctcaccaac acctactgtc 180
tggtagcgat cggaggctca gagaacttct acagtgtgtt cgagggcgag ctctccgata 240
ccatccccgt ggtgcacgcg tctatcgccg gctgccgcat catcgggccc atgtgtgtgg 300
ggaacaggca cggctctcctg gtacccaaca ataccaccga ccaggagctg caacacattc 360
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gcaatgtcac cacctgcaat gactacgtgg ccttgggtcca cccagacttg gacagggaga 480
cagaagaaat tctggcagat gtgctcaagg tggaagtctt cagacagaca gtggccgacc 540
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gctgtcctgt gccaccccat taaagtgcag ttccctccgg aaaaaaaaaa aaaaaaaggg 1140
cgcnac 1147

<210> 202
<211> 688
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (477)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (684)

<223> n equals a,t,g, or c

<400> 202

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ggagtcgggc cgcgactgtg gtcgttttta taccttcccg cgcggacgcc ggcgctgcca 120
acggaagggc gggtaggacg gagtttcgtc atgttgacca ggcccatttg agatctttga 180
agatatcctc aacgtgaggc tctgctgcca tgaagggtgaa gattaagtgc tggaacggcg 240
tggccacttg gctctgggtg gccaacgatg agaactgtgg catctgcagg atggcattta 300
acggatgctg ccctgactgc aagggtgcccg gcgacgactg cccgctgggtg tggggccagt 360
gctcccactg cttccacatg cattgcatcc tcaagtggct gcacgcacag cagggtgcagc 420
agcactgccc catgtgccgc caggaatgga agttcaagga gtgaggcccg acctggntct 480
cgctggaggg gcacccctgag actccttcct catgtggcg ccgatggctg ctggggacag 540
cgcccctgag ctgcaacaag gtggaaacaa gggctggagc tgcgtttgtt ttgccatcac 600
tatgttgaca cttttatcca ataagtgaat actcatataa ctactcaaat cttaaaaaaa 660
aaawaaawaa atctcggggg gggncccg 688
```

<210> 203

<211> 304

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

<400> 203

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aaatgtgaaa actaaggcct tgcaagccta tgggtcaccc aggggtagga tcaggcacct 60
taactctaga gccattctc ctaaccactg agccatgatt gtcttacaat tttgaatact 120
gcaaaaactgg aagaattgtc tggtattat ctaagctggt cataagctgg aacaagtaga 180
tctgagggtg agaggagttc tgttttaact aggactgagt ttcaaataga gatgtttcag 240
actatagagg gggaaaaatg gcckgggang tccataaatc taagccngtt tcatggatgt 300
tttt 304
```

<210> 204

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 204

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gggtcgaccc acgcgtccgc gcgggcgggg acggagctcg gcgtgcttgc tgctggaggg 60
```

```

tgatggccct gcaaggctgt gggctccgac ctcaccggga gtcgamarcg agaggttcgc 120
cgaagagcga ggttctgggc gagcgctgaa cgccggcccc aagcaccggt ggtctttaca 180
cagtcgcgct ccacagactc tgacgaagac gtggatctgc tctcgcttta gctgctcgcg 240
gtcctccaga tcatgtccgc gactcctgcg actccgcgcg gaaaaaaaaag ttgcccaggc 300
gtggactcaa tgacytttcc aastgtgcmc ctcgytgctt ggaccgggtt gagcgcggtt 360
gcccaagttg aactttttgn ggggagggtt ttctctaagg gctgttgtct caatggg 417

```

<210> 205

<211> 551

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 205

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gggtcgaccc acgcgtccga ctagttctag atcgcgagcg gcccgccctt tttttttttt 60
tttttttttt tggtttccag agtttggtt tattttgcag tacagaaatc atctggagcc 120
gtctgagaca gacatccctg aagcggagcg tctgtcaaat caatactgcg tcgcacttrg 180
tccgttgagg aagccacacc tggggtacaa aagaagcttc tacgtttacc cgctgtacca 240
cggatttctt tcccccttgc tcttaccaat tttaccagggt gaaaacaccg cacagaggct 300
tccctcgga tgacgctcgg gtctggagtt gggttagaat tgtgggcccg cgtgaccccc 360
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gcggggccac gcagggatgc tgttcccaan tcacgganta tctggtgggc ntcgcaatgg 480
ccantgggac agatggcacg tgaaaggggc cgttccggnt ctcaagcggc agaagcaca 540
gaccgcggag g 551

```

<210> 206

<211> 1101

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
<223> n equals a,t,g, or c

<400> 206
tcccgggtcg acccacgcgt nccgcccgt ggaggctgga gcttccgggc cctggaaagg 60
gggtccccgcg cgccccgggt cggaggcaga cccctgggtt tgggggacat gggcatttgg 120
ggcgccctgaa cccaagacct ctggatgagc tgccccgttc agaccatgga tcctgagggtg 180
accttgctgc tgcagtgtcc tggcgggggc ctgccccagg agcagataca ggccgagctg 240
agccccgccc atgaccgtcg cccactgcca ggtggggacg aggccatcac tgccatctgg 300
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gccaccctgg cgcctattgg ctctcggggg ccacagctgc tcctgcgcct gggccttact 420
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ggtgccaccg actgggggtga cagcaggcc tatctggcgg acccactggg ggtggggcgt 540
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ggcagccccc agcaccagga cctcgtggg cagctggtgg tacatgaact cttttccagt 720
gtccttcagg agatctgtga tgaggtgaac ctgccgctgc tcaccctgag ccagccccctg 780
ctgttkggca tcgcccga aa tgagaccagt gctggccgag ccagtgccga gttctatgtc 840
cagtgcagcc tgacttctga gcaggtgagg aagcactacc tgagtggggg acccgaggcc 900
cacgagtcta caggaatctt ctttgtggag acacagaacg tgcggagatt gcccgagacg 960
gagatgtggg ctgaactctg cccctcgcca aaggcgccat catcctctac aaccgggttc 1020
agggaaagtcc cactggagcg gccctagggt cccagccct actcccgccg ctctgaaaat 1080
aataaacgac tttattcttg g 1101

<210> 207
<211> 515
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<400> 207

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gggtcgaccc acgcgtccgc ccacgcgtcc ggcr gataga gcgccatgaa ggcctcgggc 60
acaactgcgag aatacaaggt ggtggggcgc tgcctgcccc ccccaaatg tcgcactccg 120
ccgctgtatc gcatgcgaat ctttgcacct aatcacgtgg tcgccaaagtc ccgcttttgg 180
tactttgtgt ctcagctgaa aaagatgaag aagtcctcag gggaaatcgt ctactgtgga 240
caggtgtttg agaaatcccc cttgcgagtg aagaacttcg gcatctggct gcgctatgac 300
tcgagaagcg gtacccacaa catgtaccgg ggagtaccgg ggacctgacc amcgcgggcg 360
ccgtcaccca gtggttaccg agacatgggc gcccgacacc gttgcccag cgcattcgat 420
tccagatnct tgaagtggna ggagattgnc agccancaat tgccgcggg ccancattca 480
agcatttcca aggattccaa gatcaattcc cattg 515
```

<210> 208

<211> 269

<212> DNA

<213> Homo sapiens

<400> 208

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aagcattgtg ggtaaaggcc tggaggcagg aaagtgaagg acaatttcaa gaaactcagt 60
tcatcaattt tcatcaacac cttcctgggc catgcctggg tactgagraa cccagccctg 120
aatctggaca tcattttccc tttcagagca tagaatgcag ggggatccag ggaatgggtt 180
aacagaagag gaagctggwt caaggagacc tttgcgtacc aggtgaaggt gtttgaactt 240
tgttcttgca ggcaggcaga gcacggaca 269
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<210> 209

<211> 734

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<400> 209
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ccgcgggacgc ccgctgagct tggcgacacg gccgaccagg agctggtgac tgccctcatg 120
tgtgatttgc ggcggccagc ggcagggtgg atgatggact tggcctacgt ctgtgagtgg 180
gagaaatggt ccaagagcac ccaactgccc tcggtgcccc tggcctgcgc ctggtcctgc 240
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atccacatcc tggacacgga gcacccctgg gacctgcact cgatcccctc agagcaccac 360
gaggccatca cctgcctgga gtgggaccag tcaggctccc ggctcctgtc agcagatgcc 420
gacgggcaga tcaagtgtg gagcatggcg gaccacctgg ctaatagctg ggagagctca 480
gtgggcagcc tagtggagg ggacccatt gtggccctgt cctggctgca caatggtgtg 540
aaactggccc tgcacgtgga gaagtcgggc gcctccagct tcggggagaa gttctcccga 600
gtcaagtctt caccygttct cacgctgttc ggcgcaagc catggagggc tggatcgcg 660
tgacggtcag cggcctggtc accgtgtccc tgctgwaasc agcgggcagg tgctgacgtc 720
caccgagagc tntt 734

<210> 210

<211> 658

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (567)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (580)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<400> 210

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cccgccagcg ttgaggttta tcacgacagc ctgtgccgaa aaatctggcg tgaggatgat 60
aaatggcatg tcatttttcg tgcagacggc tgggagcaac atattaccgc ccgctatctg 120
gtcggtgccg atggcgcaaa ctcgatggtg cggcgacatc tctaccgga tcatcaaatc 180
cgtaaatatg tcgctatcca gcagtgggtc gcggagaaac atccgggtgc gttctactcc 240
tgcattcttg ataattcgat aactaactgt tattcatgga gtatcagcaa agacggktat 300
tttatctttg gcggtgccta tccaatggaa agacggtcag acgsgtttca sgacgcttra 360
agagaaaaatg agcgcccttc agttccagtt tggtaagacg gtgaaaagcg aaaaatgcac 420
gggtgctggt tccctcgcg caggcaggatt ttgtctgcgg taaggacaac gcctttcttg 480
attggtgaac ggcgggattt atcagcgcca gctcgctgga agggattagc tatgcgctgg 540
atagcacaga catttctgcg ntcgtgntac tgaacancn gagaagctca ataccgttac 600
tggcgcgcca cccgaaactg ggttaaactc ttcgnaaga tataaaaagc catnctga 658

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<210> 211

<211> 204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 211

```

attcggagag ccatctctga cagttagagc cgatatcact ggaagatatt caatcgtctc 60
tatgcttacg acctgcagat acagtctgtt nttncacatg aagaaagtct caagttgctg 120
aagactgaat tgtaagaaaa atctccagcc cttctgtctg cagcttgaga cttgaaccag 180
agagtgtgag agctgctgtt ggag                                     204

```

<210> 212

<211> 1271

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1222)

<223> n equals a,t,g, or c

<400> 212

```

ttccgcagcc ttgccccagc ccaactcccc tctcacccta ccacagagca tggtaaatac 60
caagcccagag aagacggagg aggactcaga ggagggtgagg gagcagaaac acaagacctt 120
cgtggaaaaa tacgagaaac agatcaagca ctttggcatg cttcgccgct gggatgacag 180
ccaaaagtac ctgtcagaca acgtccacct ggtgtgctgag gagacagcca attacctggt 240
catttggtgc attgacctag aggtggagga gaaatgtgca ctcatggagc aggtggccca 300
ccagacaatc gtcatgcaat ttatcctgga gctggccaag agcctaaagg tggacccccg 360
ggcctgcttc cggcagttct tctaataagat taagacagcc gatcgccagt acatggaggg 420

```

```
cttcaacgac gagctggaag ccttcaagga gcgtgtgctg ggccgtgcca agctgcgcac 480
cgagaaggcc atgaaggagt acgaggagga ggagcgcaag aagcggctcg gccccggcgg 540
cctggacccc gtcgaggtct acgagtcctt ccctgaggaa ctccagaagt gcttcgatgt 600
gaaggacgtg cagatgctgc aggacgccat cagcaagatg gacccaccg acgcaaagta 660
ccacatgcag cgctgcattg actctggcct ctgggtcccc aactctaagg ccagcgaggg 720
caaggaggga gaggaggcag gtcctgggga ccctactg gaagctgttc ccaagacggg 780
cgatgagaag gatgtcagtg tgtgacctgc ccagctacc accgccacct gcttccaggc 840
ccctatgtgc cccttttcag aaaacagata gatgccatct cgcccgctcc tgacttcctc 900
tacttgctgt gctcgcccca gcctgggggg ccgcccagc cctccctggc ctctccactg 960
tctccactct ccagcgccca ttcaagtctc tgctttgagt caaggggctt cactgcctgc 1020
agccccccat cagcattatg ccaaaggccc ggggggtccg ggaagggcag aggtcaccag 1080
gctggtctac caggtagttg gggagggtcc ccagccaagg ggccggctct cgtcactggg 1140
ctctgttttc actgttcgtc tgctgtctgt gtcttctatt tggcaaacag caatgatctt 1200
ccaataaaag atttcagatg cnaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa 1260
aaaaaaaaaa g 1271
```

<210> 213

<211> 1025

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (991)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1007)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1019)

<223> n equals a,t,g, or c

<400> 213

```
cggacgcgtg ggcgagcgtg atagccaaca ggaaccggga gcgggggtccc gggactggga 60
agaaacggcg gccgggaggg ggctccgggg accatggggc tcctgaccat tctgaagaag 120
atgaagcaga aagagcggga gctgcgactg ctcatgcttg gcctggacaa tgctggaaag 180
acaaccatcc tgaagaagtt caatggggag gacatcgaca ccatctcccc aacgctgggc 240
ttcaacatca agaccctgga gcaccgagga ttcaagctga acatctggga tgtgggtggc 300
cagaagtccc tgcggtccta ctggcggaac tactttgaga gcaccgatgg cctcatctgg 360
gtagtggaca gcgcagaccg ccagcgcgatg caggactgcc agcgggagct ccagagcctg 420
ctggtggagg agcgcctggc cggagcaacc ctctcatct ttgctaataa gcaggacctg 480
cctggagcac tgtcctctaa cgccatccgc gaggyccctg agctggactc catccgcagc 540
caccactggt gcatccaggg ctgcagcgcc gtcaccgggg agaacctgct gccgggcatc 600
gactggctcc tggatgacat ttccagccgc attttcacag ctgactgaac cactccagat 660
gccccccacc tagcagtcca ggtccctcaa ccttcaccaa aactaccaca tgggggggttg 720
ggagtcagcc ggccaaacta aactccccc tcctccaccc cagcctgctg ctgctactgc 780
tgcccgcgtc tgctctgtgg ccaccgggct cccatggcgg gagggctgtg ccctggctgt 840
```

162

```
ctctctggct cctgacctgg cctttggcta ccataccaag aagagagggc tgggcgggga 900
ggagctgcta ctgctgctac cgaggctgtg ggccctcatcc ttacttcagt tgtgaaataa 960
accgctcctt gccccgmaaa aaaaaaaaaa naaaaaaaaa aaaaaanccc ggggggggnc 1020
ccgga                                           1025
```

<210> 214

<211> 351

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 214

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ggcacgagtr aactatatac ctcaaagaat tagaaaaaga agaacaaact aagctcaaag 60
ttagcagaag gaaggaaata gtaaatatta cagcagaagt aaagtagagg ctagaaaaat 120
aataaaaaag atcaacaaaa tggatattgt tctcatacta tgataaagac atacttgaga 180
accgcattat ttatggggaa aagaagttta attgactcac agttccacag gctgtacagg 240
aggcatggct tagggaggcc tcagggaaac ttagratcca tggtggaagg tgkargagga 300
agcatgcacc atcttcactg gccagagcag gnggagagag agcaaatttg g          351
```

<210> 215

<211> 1087

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1075)

<223> n equals a,t,g, or c

<400> 215

```
gctggagtc cagtccaccc gccacgccc agcagggcct gtccgccttc tacctctcct 60
actttgacat gctgtaccct gaggacagca gctgggcagc caaggcccct ggggccagca 120
gtcgggagga gccacctgag gaggctgagc agtgcccgtt cattgacagc caagcccag 180
cgggcagcct ggacttggtg cccggcgggc tgaccttga ggagcactcg ctggagcagg 240
tgcagtccat ggtggtgggc gaagtgtca aggacatcga gacggcctgc aagctgtca 300
acatcaccgc agatcccatg gactggagcc ccagcaatgt gcagaagtgg ctctgttga 360
cagagcacca ataccggctg ccccccattg gcaaggcctt ccaggagctg gcgggcaagg 420
agctgtgcgc catgtcggag gagcagttcc gccacgcctc gcccttgggt ggggatgtgc 480
tgcacgccc cctggacatc tggaagtcag cggcctggat gaaagagcgg acttcacctg 540
gggcgattca ctactgtgcc tcgaccagtg aggagagctg gaccgacagc gaggtggact 600
catcatgtct cgggcagccc atccacctgt ggcagttcct caaggagtgt ctactcaagc 660
cccacagcta tggccgcttc attaggtggc tcaacaagga gaagggcac ttcaaaattg 720
aggactcagc ccaggtggcc cggtctgtrg gcatccgcaa gaaccgtccc gccatgaact 780
acgacaagct gagccgctcc atccgscagt attacaagaa gggcatcatc cggaagccag 840
acatctycca gcgscctcgtc taccagttcg tgaccccat ctgagtgcct ggcccagggc 900
ctgaaacccg ccctcagggg cctctctcct gcctgccctg cctcagccag gccctgagat 960
gggggaaaac ggcagtctgc tctgctgctc tgaccttcag agcccaaggt caaggagggg 1020
```

caaccaactg cccaggggga tatgggtcct cttggggcct tcgggaccct ggggncaagg 1080
ggctttc 1087

<210> 216

<211> 1977

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1873)

<223> n equals a,t,g, or c

<400> 216

cgctgcngg naccggtccg gaattcccgg gtcgaccac gcgtccggca gaagaagagg 60
aggaggaaga tgaggaagag gaggaagaag aggaggagga ggaggaagaa gagcctcagc 120
agcgagggca gggagagaag tcagccacgc cctcacggaa gattctggac cctaactg 180
gggagccagc tcccggtgctg tcctcccccac ctctgcaga cgtctccacc ttcttggett 240
ttccctctcc agagaagctg ctgcgcctag ggcccaagag ctccgtgctg atagcccagc 300
agactgacac gtctgacccc gagaaggtgg tctctgcctt cctaaaggtg tcatctgtgt 360
tcaaggacga agctactgtg aggatggcag tgcaggatgc agtagatgcc ctgatgcaga 420
aggctttcaa ctctcgtcc ttcaactcca acaccttctt caccaggctc ctctgcaca 480
tgggtctgct caagagtga gacaaggtca aggccattgc caacctgtac ggccccctga 540
tggcgctgaa ccacatggtg cagcaggact atttcccca ggcccttgca cccctgctgc 600
tggcgctcgt gaccaagccc aacagcgccc tggaatcctg ctctctcgcc cgccacagtc 660
tgctgcagac gctgtacaag gtctagactc aaagcctctc ccatcccttg gcctggacca 720
gtgagctggg gagggactcg gatgaactga ggcgcagcct acgccattgc cttggacagg 780
actctggcca caggcagggc gggctctgtgt cccatgtgtc ctgtcagtc cctgagtatg 840
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ttctgctggc ccagccctgc tctgttgtgg ggagttggcc cccaggggaa agggctgtga 960
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ggagttgccc gcgtgctgtc ctccccctct gtgttgtgat tgggttgttt cctgccctgc 1140
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taccactgtg ctgaccgctc agcctgaaga gcagagaatg ccatgggtgg gactgtgggg 1260
gtcggatcgt ggggttgttg gcagagggca accctgggcc ccacaccgtg tggacaggca 1320
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atctggacgc tgctcttaaa ggacctcctg gggcagggga gcggtagggt ctggactggg 1560
cagatgctgt atgacctccc tgagcaccgc tgactgcccc atgctttccc ctttgtgtc 1620

tgtgtgtgtc tggctgtgcc cgggggcttc acaaataaag tcgtgtggca gcttcagaga 1680
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gcctcggcct caggcactac ctgggaagtg gcagtcctga gtggggggcc attttcctgc 1860
ctggscacac ctnaccagc accctgcctt tgggctgcag ctcgcttggc ttctgcgttg 1920
ctccttcact atggaagcca cctcccttgg gatcctttgc tccactgcca catatgt 1977

<210> 217

<211> 2815

<212> DNA

<213> Homo sapiens

<400> 217

aattccccggg tcgaccacg cgtccgggcg cccgcgtctg agcccagagg gctgtggagt 60
gtcccggccg gccccgagca cccccgcgct gtcgggtccc cgctccggtc tttcgctttg 120
gcttccaact agttaaatgc ccttgagcgc gggtttccgc ggcccggctc ttcgcccccg 180
cggcgcgagt tgagccggtt ccccgcgctg tccgcgcggg cgctccgaca gcggtcttgc 240
agggtccgcg gccagcgctc ggccaccgct cggccgccac tcaaggctca cgcgtcgatg 300
tgtagctaca tagttatctg tgtacatcca cgctggggca tttttctcct gcttaatgag 360
gacttgactc gggagcaagt gtgaatcatt gccggggctg ggaaaggagg aaggcgcatt 420
taacccccct ccacccctct ccatgtccgt gtgtcactcg gctcgggtcca cctggcgcg 480
ccggctcctg ggctgtgct gctgttgacg acgacgacga cgacgggggc tgccctctgt 540
gtcccgggag tttcctcctg ctccggccac acagctcctg gggattgttc ctcttcgaac 600
cagaacctcg gcctgaccgg cactttggct ccaaaataac tttatttttg ggggagaaag 660
cacatcacga accagtcaaa atcgtgggtt atttctgtaa cgtgaagact tctgctcttt 720
tttctttgtt tgtttttttc gtaaacatct ggggtgtatat caaacggcaa gatgtccagt 780
aatgtcccgg cggatatgat aaatttgccg ctcattttgg taagcggaaa aacaaaagag 840
ttcctgtttt ctctaacga ttctgcttct gacattgcaa agcatgtata tgacaattgg 900
ccaatggact gggaagaaga gcaggtcagc agtccaaata ttctacgact tatttatcaa 960
ggacgatttc tacatggaaa tgtcacatta ggagcattaa aacttccttt tggcaaaaca 1020
acagtgatgc atttgtggc cagagagaca ttaccagagc caaactctca aggtcagagg 1080
aatcgtgaga agactggaga gagtaattgt tgtgtaatcc tgtaaacact gtctgcctag 1140
tgtgatgtga tatagtcttt gtctttcatg ctgctgggac agaaaagacc cgacattgct 1200
tcagaaaccg ttcagaacag tctgcctgta aacacatgga actgaattac cacatgaaca 1260
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ttcatcatca gaactaataa atcaagtgtt ccaaatacaa tttgcactaa aaagattggc 1500
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aggaaaaaat ggaaaagaaa ctaaaatgtt ggggtgaattc taccaaagtc agccgtgggtg 1680
gctgcactgg cacagaatac taaactgagt gtgactatth tcaactgcaac aaatgaaaaa 1740
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ggtagagagt cgtctcctag ccttaatgtg ggagggtagt ttcagtcact catcggttt 1920
cattattgtg crgaaatatt agaaaacctc attgatcaat tttatgtatt tgaatatcag 1980
caaattgaaa ttttccataa ttatcattaa ttgttaacca catccagtgat catgcttact 2040
ccttagagtt cagatgaatt cttaaaatta aaaaaaact ccatagtact aattttgktt 2100
ctttatatag tttgcgtttg atattagtgc ttgcaattgt attaaagtca aaagctgatt 2160
tttatggcat acacaagaat gccacttttt cttttatttc ataccaataa tttaaagatt 2220
gatatgctaa aaacaatttg cacagcacta aagcatgagc tactttcatc taaacctgta 2280

165

```
aaaatatgaa agatttttat attttttcac tgggaagaaa ttcttcctgg atgaaattac 2340
aaatatgtgt agaatatatt taataaaaaga cttataaaat acctaactac aggacttaaa 2400
atatagattg gcgcgtagta tatagaacaa tattccatat aaataagttt agccctttata 2460
aaaatgaagt tgcaggctga cattacattc tgtacttact aagtgtcaac agcccttaca 2520
aacattaaat gtaaatggtt tcaaatggct agcgttggtt aaatgtaatc atgttatttt 2580
attcattgtt aatgctttga tgaaaaggct ttatatgcag tagatctacg aaaatattgt 2640
tcatactgat cagaattaaa ttgtataga gcagagtttt aaaatgaatg taaatagcac 2700
taaacgtttt ctttctgcaa cctgtactta cagattcttc ctgtaaacta aataaaaaaa 2760
aaatgatagt gcaaaaaaaa aaaaaaaggg cggccgctcg cgatctagaa ctagt      2815
```

<210> 218

<211> 1645

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1643)

<223> n equals a,t,g, or c

<400> 218

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gccacgcgt ccggagggcg gggacaactg ggtcttttgc ggctgcagcg ggcttgtagg 60
tgtccggctt tgctggccca gcaagcctga taagcatgaa gctcttatct ttggtggctg 120
tggtcgggtg tttgctggtg cccccagctg aagccaacaa gagttctgaa gatatccggt 180
gcaaatgcat ctgtccacct tatagaaaca tcagtgggca cattacaac cagaatgtat 240
cccagaagga ctgcaactgc ctgcacgtgg tggagcccat gccagtgcct ggccatgacg 300
tggaggccta ctgcctgctg tgcgagtgcg ggtacgagga gcgcagnacc accaccatca 360
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tgatgctggt ggacctctct atccgaaagc cggatgcata yactgagcaa ctgcacaatg 480
aggaggagaa tgaggatgct cgctctatgg cagcagctgc tgcattccctc gggggacccc 540
gagcaaacac agtcctggag cgtgtggaag gtgccagca gcggtggaag ctgcagggtgc 600
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gttgggtcaa ggccccaaaca ccatggctgc cagcttccag gctggacaaa gcagggggct 720
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ctccctaact ttagaaatgt tgtacttggc tattttgatt agggaaagagg gatgtggtct 840
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gggaatggag acattcgagg cggcctcagg agtgatgcg atctgtctct cctggctcca 960
ctcttgccgc cttccagctc tgagtcttgg gaatgttgtt acccttgga gataaagctg 1020
ggtcttcagg aactcagtg ctgggaggaa agcatggccc agcattcagc atgtgttccct 1080
ttctgcagtg gttctttatc accacctccc tcccagcccc agcgcctcag cccagcccc 1140
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tcagggtgca ctggaagctg gtgttcgctg tcccctgtgc acttctcgca ctggggcatg 1260
gagtgcccat gcatactctg ctgccggtcc cctcacctgc acttgagggg tctgggcagt 1320
ccctcctctc cccagtgtcc acagtactg agccagacgg tcggttgga catgagactc 1380
gaggctgagc gtgatctga acaccacagc ccctgtactt ggggtgcctc ttgtccctga 1440
acttcgttgt accagtgcac ggagagaaaa ttttgcctc ttgtcttaga gttgtgtgta 1500
```

```
aatcaaggaa gccatcatta aattgtttta tttctctcaa aaaaaaaaaa aaaaaaccaa 1560
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aangg 1645
```

<210> 219

<211> 478

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<400> 219

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tcgacccacg cgtccgggga attcaaggag acggggggcga cgcggctgct ggcgcctcct 60
cgggtttggg gctgccgcca tcatgccggg gatagtggag ctgcctactc tggaggatct 120
gaaagtgcag gaggtgaaag tcagttcttc ggtgctcaaa gctgccgccc atcactatgg 180
agttcagtgt gacaagccca acaaggagtt catgctctgc cgctgggaag aaaaagaccc 240
ccggcgggtgt ttagaggaag gcaagctcgt caacaaktgt gctctggayt tcttcaggca 300
gataaagctt tcaactgtgca gagcctttta cagactattg gacntgcac gactactccg 360
gcctgcagtg ttttcgtcgc tgccgcaaac agcaggccaa tttgacgatg tgtgnggggc 420
aactgggatg gtgcggctga actggggaaa angttccagt caccaaatng aaaacagt 478
```

<210> 220

<211> 832

<212> DNA

<213> Homo sapiens

<400> 220

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cagcccctcc cttgtgtttc aaccaatcgg aagtgaattt aactagatgt agtaaccttt 180
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agaggaaata aattcactat taattcatgt cttaagttac ttgggttaaa acactttcag 300
ccaccagat taattaaagt ggagcagtgg agcccctggc tgggagatgg cctccagagg 360
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agcagctgca gggcaygttc tgggcttagc gacagaggca agcaaggac tgggtgtctct 420
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tcctctgtgg tcaactgact actgcgatc gcagtggaat aagactgcac agttgctggt 540
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tgcataatga aagcatgtgt tcacactgtg tgtaaacatt cactgaagat tttttctttg 720
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aaaaaaaaaa aaaactcgag ggggggcccg gtaccaaat cgcccgaggt ag 832

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<210> 221

<211> 1892

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1892)

<223> n equals a,t,g, or c

<400> 221

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tgactctggg ctagagacct ccccaacaga gctgaggcca aggccgactc cccctctcaa 60
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cctgctcatt tgaaaatctg acatcagctg ggcaagtcgc cccctcctcc tttcctccct 180
ctactctgac acagcactta gcacctgaat cttcgtttct ctcccaggga ccctccattt 240
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tttagccaca agtgactcag tggaagatcc agagtcaaca gaggtcgtc aggaagatgt 360
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```

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa an

1892

<210> 222

<211> 868

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (860)

<223> n equals a,t,g, or c

<400> 222

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ttacttcata tccgggggaa tgtggctttg tgttcaccaa ggaggcctca cttgagatca 180
gggacatgct gctggccaat aagtgccag ctgccgcccg tgctggtgcc atagcccat 240
gtgaggtcac tgtgccagcc cagaacactg gtctggggcc cgagaagacc tccttcttcc 300
aggctttagg catcaccact aaaatctcca gaggaacctg tgaaatcctg agtgatgtgc 360
agctgattaa gaccggagac aaagtgggag ccagtgaagc cacactgctg aacatgctga 420
acatctcccc cttctccttt gggctgatca tccagcaggt gtttgacaat ggcagcatct 480
acaaccctga agtgcttgac atcacagagg aaactctgca ttctcgcttc ctggagggtg 540
tccgcaatgt tgccagcgta tgtctgcaga taggttaccc aactgtggca tcagtgtccc 600
attctatcat caatggatac aagcgggtcc tggctttgtc tgtggagact gattacacct 660
ttccacttg c tgaaaaggtc aaggccttct tggctgatcc atctgcattt gtggctgctg 720
cccctgtggc cgctgccacc actgctgcac ctgctgctgc tgcagcccca gccaaagttg 780

aagcaaagga agagtcggag gaawcggatg agagkattkt camttcgana atcagcaaaa 840
gcaacaattc cagccagtn attgtgaa 868

<210> 223

<211> 1516

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1493)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1516)

<223> n equals a,t,g, or c

<400> 223

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tatctttggg gatgcctgtg ataactgcct gagtgtctta rataacgacc agaaagacac 120
cgatggggat ggaagaggag atgcctgtga tgatgacatg gatggagatg gaataaaaaa 180
cattctggac aactgcccaa aatttcccaa tcgtgaccaa cgggacaagg atggtgatgg 240
tgtgggggat gcctgtgaca gttgtcctga tgtcagcaac cctaaccagt ctgatgtgga 300
taatgatctg gttggggact cctgtgacac caatcaggac agtgatggag atgggcacca 360
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tggaattggt gacgagtgtg atgatgatga tgacaatgat ggtatcccag acctggtgcc 480
ccctggacca gacaactgcc ggctggtccc caaccagacc caggaggata gcaacagcga 540
cggagtggga gacatctgtg agtctgactt tgaccaggac caggtcatcg atcggatcga 600
cgtctgcccc gagaacgcag aggtcaccct gaccgacttc agggcttacc agaccgtggt 660
cctggatcct gaaggggatg cccagatcga tcccaactgg gtggctcctga accagggcat 720
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tggagttgac ttcgaaggga ctttccatgt gaatacccag acagatgatg actatgcagg 840
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gcagacatat tggcaagcca cccattccg agcagttgca gaacctggca ttcagctcaa 960
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tatatatatt aacttcaatt ttctttagct tttaaccaacc caaatatatac aaaacgtttt 1440
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gggcccgnnn caattn 1516

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<210> 224

<211> 1306

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (887)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1242)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1303)

<223> n equals a,t,g, or c

<400> 224

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ccggactccg tcggcgcaca tcccgtccc agcgcagaga gccacccag gaaaagcccg 120
gctggacgag gtcatggctg ccgctgcnst tacaagcctg tccaccagcc ctctccttct 180
gggggcccc gttgcagcct tcagcccaga gcctggcctg gagccctgga aggaggccct 240
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ggccagtgc cagtcctctc cgtccacccc gtcaccccca ctgccccccg aggcagccca 360
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gtgtctgtgg aagagctgcg ggaagggtgct gagcacggcg tcggcgatgc agagacacat 480
ccgcctggtg cacctgggga ggcaggcaga gcctgatcag agtgatggtg aggaggactt 540
ctactacaca gagctggatg ttggtgtgga cacgctgacc gacgggctgt ccagcctgac 600

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171

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tccagtgtcc cccacggcct ccatgccgcc tgccttcccc cgcctggagc tgccagagct 660
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ccctgtctcg agcaccgttg ctaacccccca gtcctgtcac agtgaccgtg tctaccaggg 780
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tttttgact aaaagccaaa aaaaaacggt gttcccttta gncccaaggg ggccttgggg 1260
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<210> 225

<211> 584

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (486)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (542)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 225

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ggaaacccag acccaagacc aaccgatgga ggaggaggag gttgagacgt tcgcctttca 120
ggcagaaaty gcscagttga tgctrytgat catcaayacy ttctactcga acaargagat 180
cttcttgccg gactgatctc caactcgtcc gacgctcygg aaaaaatccg atacgagagc 240
ctgaccgacc ccagcaagct cgactcgggg aaggagctgc acattaacct catcccgaac 300
aagcaggacc ggaccctcac catcgtggga taccgggac gcattgacaa ggccgacctg 360
atcaacaacc tgggcaccat cgccaaktcg gggaccaaag cgttcattga agytctgcag 420
gcggggcgcag atatttcyat gattggccag ttcggggctcg ggttctattc ggcctacttg 480
gtggcnagaa ggtgacggtg atcaccaagc acaacgatga cgagcattac gcctgggagt 540
cntccgcagg ggctcgttca angttccgca ttgacacagt gaac 584

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<210> 226

<211> 523

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (498)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (514)
 <223> n equals a,t,g, or c

<400> 226
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 atgggtgacag acatccagac tgctgtaagg accaactcca cctttgttga agctttggtg 120
 gaccatgcca aagcacagtg tgatctcctg gggcccggca tggctgacat gtgcaagaac 180
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<210> 227
 <211> 2377
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2369)
 <223> n equals a,t,g, or c

<400> 227
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 ggtccaagtc caagtcctcg tcggtctcca gatctcggtc gcggtccagg tcccggtctc 180
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 tgcaataaga agcagtgaac atttggaacc ccaaaagaaa gttacaggta ttgactggg 840
 tggggaaaagg atagtgtgtc ttttaactctt aaattgtttg gtccattttt ttaaaaagga 900


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tgtaagtact tataacatgg tgtatctttt tgcttatgaa tattctgtat tataaccatt 2280
gtttctgtag ttttaattaa acattttctt ggtgttagct tttctcagaa aaaaaaaaaa 2340
aaaaaaaaa aaaaaaaaaa aaaaaaang aaaaaag 2377
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<210> 228

<211> 463

<212> DNA

<213> Homo sapiens

<400> 228

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acaatatgac tcctccttta ctcatcatg acttgaagac tcagaatata ttattggaca 180
atgaatttca tgtaagatt gcagattttg gtttatcaaa gtggcgcatg atgtccctct 240
cacagtcacg aagtagcaaa tctgcaccag aaggaggac aattatctat atgccacctg 300
aaaactatga acctggacaa aaatcaaggg ccagtatcaa gcacgatata tatagctatg 360
cagttatcac atgggaagtg ktatccagaa aacagccttt tgaagatgtc accaatcctt 420
tgcagataat gtatagtgtg tcacaaggac attggactgg tat 463
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<210> 229

<211> 1232

<212> DNA

<213> Homo sapiens

<400> 229

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gacctctctc ccttcagct gccagagcc cagaccaagc atggacgccg tggatgccac 120
catggagaaa ctccgggcac agtgcctgtc ccgcggggcc tcgggcaccc agggcctggc 180
caggtttttc cgccaactag accgggacgg gagcagatcc ctggacgctg atgagttccg 240
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gcaggggtctg gccaaactcg ggctggtgct ggaccaggcg gaggcagagg gtgtgtgcag 300
gaagtgggac cgcaatggca gcgggacgct ggatctggag gagttccttc gggcgctgcg 360
gccccccatg tcccaggccc ggagggctgt catcgacgct gcatttgcca agctggaccg 420
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cggcgtgagt gcctccatga acacggatga ggagtctgtg gccatgatga ccagtgcctg 660
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gacctgcca ggtgtggagc gaggggcaca ggggcatcct aacctcagaa actgaaataa 1140
agcctttgaa aaaaaaatct gtaaacatc aacccccaat cagaagatgg caaatgggga 1200
ataaaaatag caggtaacac gtcaaaaaaa aa 1232

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<210> 230

<211> 1063

<212> DNA

<213> Homo sapiens

<400> 230

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<210> 231

<211> 1063

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1063)

<223> n equals a,t,g, or c

<400> 231

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<210> 232

<211> 1474

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1377)

<223> n equals a,t,g, or c

<400> 232

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<210> 233

<211> 1782

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (591)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1760)

<223> n equals a,t,g, or c

<400> 233

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<210> 234

<211> 2208

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2202)

<223> n equals a,t,g, or c

<400> 234

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<210> 235

<211> 2580

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2558)

<223> n equals a,t,g, or c

<400> 235

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<210> 236

<211> 3008

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3001)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3008)

<223> n equals a,t,g, or c

<400> 236

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tgagctattc ctctttgggt tggctttttg atatgattaa aattattttt tattcctttw 2940
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3000
nggggggn                                     3008
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<210> 237

<211> 877

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (834)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (854)

<223> n equals a,t,g, or c

<400> 237

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ttataatatg atgtaagtac agagagctgt gggaacataa aggaaggaaa atgaacttga 180
gtctgagact gtcacttct attagagccc tcttctgttt tgcttcatgt tcagccttca 240
ggaagaactc atttctgttg ttgacaactg aagttgtctg tcagaaagca atgttgtaag 300
gtgacgtaca gctacatatt tttcctcaaa attgaggtga aaggaatttc taaagtaggc 360
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tggccctcta cttcagatta ctttctatga agacaaaaat tttcaaggcc gtcgctatga 480
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ctgtgattgc gactgtgcag atytccacac atacctaagt cgtgcaact ccattaaagt 540
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accacaggga gagtaccctg aataccagcg ttggatgggc ctcaacgacc gcctcagctc 660
ckgcagagct gtttcatctg cctagtggag gccagtataa gattcagatc tttgagaaaag 720
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tcacatgcga gagaccatcc tgtaagtgtc ggaggtgtct ggattttcta tgancatccc 840
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<210> 238

<211> 3039

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3039)

<223> n equals a,t,g, or c

<400> 238

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tgggtcatcag ccaggggaag attgtcctgg aggacggcac cctgcatgtn accgaangct 180
ctggacgcta cattcccccg aagcccttcc ctgattttkt ttacaagcgt atcaaggcaa 240
ggagcaggct ggctgagctg agaggggttc ctcgtggcct gtatgacgga cccgtgtgtg 300
aagtgtctgt gacgccaag acagtcactc cagcctcctc ggccaagacg tctcctgcca 360
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aaaaaaaaaa aaaaaaaaaa aaccccgggg gggggcccn 3039

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<210> 239

<211> 1992

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1989)
<223> n equals a,t,g, or c

<400> 239
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atgtcctcaa gtgtgtggtc agcacagacc ctggcctccg ctcccactgg ctggtggctg 480
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gggggtgggc atgtgccagg acaggagggt cccggcgga agccagcccc ggactcatcg 1860
tgacattgag atcccactgg agggtagggg tggtaataaa cttctccaaa cgatgcgttg 1920
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aaaaaaaaanc cc 1992

<210> 240

<211> 497
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (476)
<223> n equals a,t,g, or c

<400> 240
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gcaggagacg caggcatggc cggtgagctg actcctgagg aggaggccca gtacaaaaag 180
gctttctccg cggttgacac ggatggaaaac ggcaccatca atgcccagga gctgggcgcg 240
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gttgacrgcg acggcgacgg cgaaatcagc ttccaggagt tcctgacggc ggcrargaag 360
gccagggccg gectggagga cctgcangtc gccttcgcgc ccttcgacca ggatggcgac 420
ggccacatca ccgtggacga gctcaggcgg gccatkcgcg ggytggggma ccttcnagag 480
attgaccatt ttggagc 497

<210> 241
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<400> 241
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cgcgatgagg atcattccag gcgcgattgc actcataagc tgttccgttt tgaaaattcg 120
tgttcaacga tagnaatctgt ggataatacg cacatttcgc cggaagtggc atccggttag 180
ccaraaagca ggcaggacgt gatggatatt gtattttatag agcaactttc ggtaatcacc 240
actattggtg tttacgactg grrrcaacya tcgaacagaa gttagtgttc gatatcgaaa 300
tggcgtgggg ntaacc 316

<210> 242
<211> 829
<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<400> 242

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gcagggtaccg gtccggaatt cccgggtcga cccacgcgtc cggaaagaaa agaagaaaag 120
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ctattatgat cttatctcag gagcatctca gtgggagaaa cctgaaggat ttcaaggaga 240
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atgaaaatagt gatatctggc tgggtgcagt ggctcatgcc tgtaatccca gcactttggg 480

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aggctgaggc atgtggatca caaggtcagg agttaaaagac cagcctggcc aagatggtga 540
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aacagtgagc cgagattgca ccaccgcact ccagcctgga taacaaagta agactccgtc 720
tcaaaaaaaaa aaaaaaaaaa agggcgggccg ctctagagga tccctcgagg ggcccaagct 780
tacgcgtgca tknaacgtca taggggctng ggcntttacc tttcccgtc 829

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<210> 243

<211> 838

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (822)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 243

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gtacttgaat agttacagca tatgtttgaa caggaagtag gaacatgcat acacgaagaa 240
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gattcggatg ctttatttat agtaactgaa gctaataatg ttttatgttt tgattttttg 600
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tggccttgct atattagttt tttttgcaag tagttatgta aaagagatag ataataaaat 780
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<210> 244

<211> 2853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2665)

<223> n equals a,t,g, or c

<400> 244

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tctagcccct gggaggcggc tggggtctgg cgccgccctc gcagcccgcg cccacgtcag 2580
```



```

acgtgaacat caatttgctt cgaaagccaa gggtaaagag gcacgatytg atttatcagt 2640
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cgctaaccgg ggaggggggc cggtaggggc gcctcgggty tcaaggcgcc gggaggggtct 2760
wgcgcccttg aaggtccctk ggtccgagcc acaagtcggg gcagaagtga ggccgagctc 2820
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```

<210> 245

<211> 1197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1193)

<223> n equals a,t,g, or c

<400> 245

```

gctcgtgccg cggcctgctt ctacctgget gagatcacgc tggccctggg ccatctccac 60
tcccagggca tcatctaccg ggacctcaag cccgagaaca tcatgctcag cagccagggc 120
cacatcaaac tgaccgactt trgactctgc aaggagtcta tccatgaggg cgccgtcact 180
cacaccttct gcggcaccat tgagtacatg gcccctgnag attctggtgc gcagtggcca 240
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ggcactgccc ccctacctca ccccagatgc ccgggacctt gtcaaaaagt ttctgaaacg 420
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gccctgtctg cagtacagag aggacgtgag ccagtttgat acccgcttca cacggcagac 600
gccggtggac agtcctgatg acacagccct cagcgagagt gccaaaccag ccttcctggg 660
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caagctgcgc tcaccagggc gcctcaacag tagcccccgg gccccctgca gccccctcaa 780
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tgtgtctgct ggggcagctg tgcccctgaa tcatgggcac ggaggccgcc cgccrmgccc 1140
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```

<210> 246

<211> 848

<212> DNA

<213> Homo sapiens

<400> 246

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ggcacgagga gagagacctg gcggccgggc agcatggcgg ggctggagct cttgtcggac 60
cagggctacc ggggtggacgg gcggcgcgcc ggggagctgc gcaagatcca ggcgcggatg 120

```

```
ggcgtgttcg cgcaggctga cggctcggcc tacattgagc agggcaacac caaggcactg 180
gctgtggtct acggcccgcg cgagatccgg ggctcccggg ctcgagccct gccggacagg 240
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ccacatgggg accgtaagtc ctgtgagatg ggccctgcagc tccgccagac ttctgaagca 360
gccatcctca cacagctgca cccacgctcc cagattgata tctatgtgca ggtgctacag 420
gcagatggtg ggacctatgc agcttgtgtg aatgcagcca cgctggcagt gctggatgcc 480
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ctggagcggg tgttgaggc tgctgccag gctgccgag atgtgcacac cctcttagat 720
cgagtgttcc ggcagcatgt gcgtgaggcc tctatcttgc tgggggactg accaccagc 780
caccatgtc cagaataaaa ccctcctctg cccamaaaaa aaaaaaaaaa aaaaaaaaaa 840
aaaaaaaaa 848
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<210> 247

<211> 1336

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1336)

<223> n equals a,t,g, or c

<400> 247

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ccccgcgggg acaaggcccg gacgngccg cggccgccca gcgcccggcc gtctcgcagc 60
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gaagatgaag aagatgatgt gtccagaggc tctgaagtgc ccgagagtga ccgtcctgca 180
ggtgcccgag accaccagct taacggcgag cggggacctc agagtgccaa ggagagggtc 240
aaggagtgga cccctgagg accgcaccag ggccaggatg aagggcgggg gccagccccc 300
ggcagcggca cccgccagg gtctctccatg gcagccatga acaaggaagg gggaacagct 360
tctkttgcc cggggccaga ctcccgcctc cccgtgcctt tgccccagg caaaccagcc 420
ctacctgggg ccgacgggac cccctttggc tgtcctcccg ggcgcaaaga gaagccatct 480
gatcccgtcg agtgaccgt gatggatgtc gtcgaatatt ttactgaggc tggattcccg 540
gagcagcgca cagttttcca agagcaggaa attgatggca aatctttgct gctcatgcag 600
cgcacagatg tgctcaccgg cctgtccatc cgctcgggc cagccctgaa aatctacgag 660
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ttttctttct gttgattgtc gctccagctg gctgtattgc tttttaatat tgcaccgaag 1260
```

ktttttttaa taaaatttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaaaan 1336

<210> 248

<211> 1076

<212> DNA

<213> Homo sapiens

<400> 248

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tgctgccatc gacatgatgg actctcggac cagccagcag ctgcagctca ttgacgagca 180
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tggtgtctgg tgactcaatc tgccaaatgt gctgcagctc gttttctccc aattacagca 1020
agactgtcag cctcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1076

<210> 249

<211> 2425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 249

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tgctcccca atgtccaggg ccctagctgt gaccgmtgtg cccccaactt ctggaacctc 120
accagtggcc atggttgcca gccttggtcc tgccacccaa gccgggccag aggccmwcct 180
gcaacgagtt cacagggcag tgccactgcs gtgccggctt tggagggcgg acttgttctg 240
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ctcgtggaat agatacacct cagtgtcacc gcttcacagg tctactgcagc tgccgcccag 360
ggtgtctggt gtgcgtgtg accagtgtgc ccgtggcttc tcaggaatct ttcctgcctg 420
ccatccctgc catgcatgct tcggggattg ggaccgagtg gtgcaggact tggcagcccc 480
tacacagcgc ctagagcagc gggcgcagga gttgcaacag acgggtgtgc tgggtgcctt 540
tgagagcagc ttctggcaca tgcaggagaa gctgggcatt gtgcagggca tcgtaggtgc 600
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ttcctagcac tgcccacat gcatgtctgc ctatgcactg aagagctctt kgcccgcagg 2340
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aaaaaaaaaa aaaaaagaaa aaaaaa 2425
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<210> 250

<211> 1408

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1387)

<223> n equals a,t,g, or c

<400> 250

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cgagcccagag ctggccgtgt cagcgccggg ccgcgtgcaa cctcatcggg gaacacacgg 180
actacaacca gggcctggtg ctgcctatgg ctctggagct catgacgggt ctgggtgggca 240
gccccgcaa gnatgggctg gtgtctctcc tcaccacctc tgagggtgcc gatgagcccc 300
```

```
agcggctgca gtttccactg cccacagccc agcgcctcgt ggagcctggg actcctcggg 360
gggccaaacta tgtcaaggga gtgattcagt actaccacgc tgccccctc cctggcttca 420
gtgcagtggt ggtcagctca gtgcccctgg ggggtggcct gtccagctca gcaccccttg 480
aagtggccac gtacaccttc ctccagcagc tctgtccaga ctcgggcaca atagctgccc 540
gcgcccaggt gtgtcagcag gccgagcaca gcttcgcagg gatgccctgt ggcatcatgg 600
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gagccaaggt gctgtgcttg tgaggcacc ccaggacagc acacgggtgag ggtgcggggc 1260
ctgcaggcca gtcccacggc tctgtgcccg gtgccatctt ccatatccgg gtgctcaata 1320
aacttgtgcc tccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaanaaaa aagaaaaaaa aaaaaaaaaa 1408
```

<210> 251

<211> 494

<212> DNA

<213> Homo sapiens

<400> 251

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gccggagccc acggtggtca tggtgccag agcrctctgc atgctggggc tggtcctggc 60
cttgcctgtc tccagctctg ctgaggagta cgtgggcctg tctgcaaacc agtgtgccgt 120
gccagccaag gacagggttg actgcggcta ccccatgtc accccaagg agtgcaacaa 180
ccgggggtgc tgctttgact ccaggatccc tggagtgcct tgggttttca agcccctgca 240
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cggagcacc ttgcccggct gtgattgtg ccaggcactg ttcattctag cttttctgtc 360
cctttgtctc cggcaagcgc ttctgtgtaa agttcatatc tggagcctga tgtcttaacg 420
aataaaggct ccatgctcca ccgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aagg 494
```

<210> 252

<211> 2491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2457)

<223> n equals a,t,g, or c

<400> 252

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acgggtcccc acgcgacagt gggcgggcca gcgccgacct cgctgctgcc cccctcggcc 120
acagcctcgg tcaagatgga gccagagaac aagtacctgc ccgaactcat ggccgagaag 180
gactcgctcg acccgctcct cactcacgcc atgcagctgc tgacggcaga aattgagaag 240
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aagaacatga aactgaaaga gcgagtgtg atacctgtca agcagtatcc caagttcaat 360
tttgtgggga agattcttg accacaagg aatacaatca aaagactgca ggaagagact 420
ggtgcaaaga tctctgtatt gggaaagggc tcaatgagag acaaagccaa ggaggaagag 480
ctgcgcaaag gtggagacct caaatatgcc cacttgaata tggatctgca tgtcttcatt 540
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acatgtgtaa gtctgcctaa ataggtagct taaacttatg tcaaaatgtc tgcagcagtt 2400
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```

<210> 253

<211> 1125

<212> DNA

<213> Homo sapiens

<400> 253

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attgtgcccg tggagaagac tggaggaaac tcgaggaaga gggagaagcc gacaagtgtc 180
cgacgggcta ggaactgtcc tgcttgggtg ttagcgtttc ccgycgggcc agtaaggctg 240
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cataaacctg tgtaccatgc actgagtgac tgtggggatc atgttggtat aatgaacaca 480
agacacattg cattttcttg aaacaaatgg gaacaaaaag tatactcttc gcatactggc 540
taccaggtg gatttagaca agtaacagct gctcagcttc acctgagggg tccagtggca 600
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gaaaggttgc atctttttcc agatgagtat attccagaag atattcttaa gaatttagta 720
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atagacgcct tccaagatt gtggactcca cctgaagatt atcggctata agagaataag 840
aattgcagaa aataacagtg aagtgattga aactttcttc tgatgagttt ctctaaccta 900
caggatggag taaaacaact gctacagttc agcacctgtt ttatgtgccg aatcactgtg 960
gggaaagtc aggaaggtgt agtccttcaa taggaaattg taattaaaat ataattttat 1020
agaaccattt ttatgtaatc tgatttgaat gttatagttg ataataataa aatcacttac 1080
ttggttgact atttagtggt gcatttaatg ataaaaaaca gaccc 1125

```

<210> 254

<211> 1409

<212> DNA

<213> Homo sapiens

<400> 254

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cactttgtct tttcttaagt aattatggta tatataaggc gttgggaaaa aacattttat 60
aatgaaagta tgtaggagat caaatgctta ctgtaaatgc ataagagacg ttaaaaaata 120
cactgcactt tcaggaatgt ttgcttatgg tcctgattag aaagaaacag ttgtctatgc 180
tctgcaatgg tcaatgatga attactaatg ccttattttc taggcatata ataatagttt 240
agagaatgta gaccagataa atttgtttac tgttttaaga aaactaccag tttacttaca 300
gaagattctt ttttccaaac agtaggtttc atccaagacc atttgaagaa ctgcaaactc 360
tttctcttag aaaagaaaag gggcagccta aaataaacgc aaaatttgct tatactccat 420
cacattcaga tgtcttggtt gtgacttatt accagtgtgg cagagaaccc aagttacatt 480
ttagatcaaa atattcttta tgtaggtatt gttaaaaggc tagagcctac aagttgctct 540
tccatgcgtt ggtcaggggg ccctgaaaac actggtaata ttaagagtct ttctcaggg 600
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ctatttttaag tattcagaaa agattttgat cccattgag ttaatgctct gccttgaaaa 780
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ccatttttta tagcctcaga aagaggaaat aatgcctcca ccattttcta cctggtgact 1200
tgaaaattga acttttaagt taggaagaag ttagagtcag ggaacttgta taccactatc 1260

```

```
tatgcagcat tggtatagtc tgattatttc tgtgttttga atatgatttt cctaattgctc 1320
taaataaaat tttgttaaaa attaatTTTT tatttaaatga tgtgcaaata ttgaatatTT 1380
tagtatattt attaaaagtg gtagtcatt                                     1409
```

<210> 255

<211> 490

<212> DNA

<213> Homo sapiens

<400> 255

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accacgcgt ccgcctctct gtcgtggcgc ggcttccgc ggtcttctct gcaaattgggc 60
tcggtggcct agcgcccccg tccccgccac ccgtgatcgt gcgccgaggc ccgcgagggg 120
tcgccgcccc ggccgccttg gtccacttc cagcaacagc tcctgcagca gtaccgagtg 180
ccccggggaa gccattcccc acccccagc tctcccaaag gctgaccggt gtcattggtg 240
ggccagcttc tttttcgga agtccaccct cccgttcatt gccacgggtg tggagtccgc 300
agagcactcg gaacctcccc aggcctccag cagcatgamc gcctgtggcc tggctcggga 360
agccccgagg aagcagcccc gcggtcagtc cagcamagcc agcgtggggc ccccgctctg 420
aactgagcgg ttaacaacaa gcccgaagcc tkcggaagcg ctagtcaac agagccctcc 480
gggccctttg                                     490
```

<210> 256

<211> 1233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (931)

<223> n equals a,t,g, or c

<400> 256

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ggcagagggt ggctcggggc tatgagaacg tgcccattcc ctgtntcacg gtgtggatgg 60
ggagccctgc cctgaggatt acaagtacat ctcagagaac tgcgagacgt ccaccatgaa 120
catcgatcgc aacatcaccc acctgcagca ctgcacgttt gtggacgact gctctagctc 180
caactgcctg tgcggccast tcagcatccg gtgctggtat gacaaggatg ggcgattgct 240
ccagggaattt aacaagattg agcctccgct gattttcgag tgtaaccagg cgtgctcatg 300
ctggagaaac tgcaagaacc gggtcgtaca gagtggcatc aagggtgcggc tacagctcta 360
ccgaacagcc aagatgggct ggggggtccg cgccctgcag accatcccac aggggacctt 420
catctgcgag tatgtcgggg agctgatctc tgatgctgag gctgatgtga gagaggatga 480
ttcttacctc ttcgacttag acaacaagga tggagagggt tactgcatag atgcccgtta 540
ctatggcaac atcagccgct tcatcaacca cctgtgtgac cccaacatca ttcccgtccg 600
```



```

gntcttcatg ctgcaccaag acctgcgatt tccacgcac gccttcttca gttcccgaga 660
catccggact ggggaggagc tagggtttga ctatggcgac cgcttctggg acatcaaaag 720
caaataattc acctgccaat gtggctctga gaagtgaag cactcagccg aagccattgc 780
cctggagcag agccgtctgg ccgcctgga cccacaccct gagctgctgc ccgagctcgg 840
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tggccacccc ccgtgttccc catcctcagt tgaagtttga tgaattgaag tcgggcctct 1140
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aac 1233

```

<210> 257

<211> 2404

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2372)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2395)

<223> n equals a,t,g, or c

<400> 257

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cggacgggtg gacgggsaag tgggggtgaa aagcgggccg acctgcttgc ggtgtagtgg 60
gcggaccgcg cggctggagg tgtgaggatc cgaaccacag ggtggggggg ggaggcggct 120
cctgcgatcg aaggggactt gagactcacc ggccgcacgc catgaggggc ctgtgggtgc 180
tgggcctctg ctgcgtcctg ctgaccttcg ggtcggtcag agctgacgat gaagttgatg 240
tggatggtac agtagaagag gatctgggta aaagtagaga aggatcaagg acggatgatg 300
aagtagtaca gagagaggaa gaagctattc agttggatgg attaaatgca tcacaaataa 360
gagaacttag agagaagtcg gaaaagtttg ccttccaagc cgaagttaac agaattgatga 420
aacttatcat caattcattg tataaaaaata aagagatttt cctgagagaa ctgatttcaa 480
atgcttctga tgcttttagat aagataaggc taatatcact gactgatgaa aatgctcttt 540
ctggaaatga ggaactaaca gtcaaaatta agtgtgataa ggagaagaac ctgctgcatg 600
tcacagacac cgggttagga atgaccagag aagagttggt taaaaacctt ggtaccatag 660
ccaaatctgg gacaagcgag tttttaaaca aaatgactga agcacaggaa gatggccagt 720
caacttctga attgattggc cagtttggtg tcggtttcta ttccgccttc cttgtagcag 780
ataaggttat tgtcacttca aaacacaaca acgataccca gcacatctgg gagtctgact 840
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ttacccttgt cttaaaagaa gaagcatctg attaccttga attggataca attaaaaatc 960
tcgtcaaaaa atattcacag ttcataaact ttcctattta tgtatggagc agcaagactg 1020
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```

```

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ttaccttgaa ttggatacaa ttaaaaatct cgtcaaaaaa tattcacagt tcataaactt 1260
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agaaaagaaa ccaaagacta aaaaagttga aaaaactgtc tgggactggg aacttatgaa 1440
tgatatcaaa ccaatatggc agagaccatc aaaagaagta gaagaagatg aatacaaagc 1500
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tccaactgac attactagcc tagaccagta tgtggaaaga atgaaggaaa aacaagacaa 2040
aatctacttc atggctgggt ccagcagaaa agaggctgaa tcttctccat ttgttgagcg 2100
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tcaggccctt cccgaatttg atgggaagag gttccagaat gttgccaagg aaggagtga 2220
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tctgctgaat tggatgaaag ataaagccct taagggcma g rtactgtggg aaattttacc 2340
aatttggtgg aaatattagt gtccggcatt tnaggggaaa gttntttttt ggggnaacca 2400
aatt
2404

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<210> 258

<211> 2092

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2069)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2071)

<223> n equals a,t,g, or c

<400> 258

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gggacccgaa cccagcctct cccctacccg aacaccggcc cgggctccac cgaggcccg 180
gtccccagc cgtctcgcc gccgccatgg cggaccctaa atacgccgac cttcccgga 240
ttgccaggaa tgagccagat gtttatgaaa ctagcgacct acctgaggat gatcaagcgg 300
agttcgatgc ggaggagctg acaagcacia gtgtggaaca catcattgtc aatcctaag 360
ctgcctatga caagttcaag gacaagagag tggggacaaa gggacttgat ttctcagatc 420
gtattgaaa aaccaagagg acaggatatg aatctggaga atatgagatg ctgggagagg 480
gtctgggagt gaaggagaca cccagcaaaa agtaccagcg cctactgcat gaggtccaag 540
agctgacaac tgaagttgaa aaaatcaaga cgacagtga ggagtcagcc acagaggaga 600
agctgacccc tgtgttgctg gctaaacagc tggcagccct gaagcagcag ctggttgctt 660
cccacctgga gaagctgctg ggaccagatg ctgcaatcaa ccttaccgac cccgatggcg 720
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ggggaaaaac cactgggacc cccccagata gcagccttgt cacttatgaa ctacattctc 840
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agattgccaa gcataaagcc tctgtagaag atgcagatac acaaagcaag gtgcaccagc 1140
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gctgtgtttc ctggggagga agcagcacta ggatatagat attcattcgt cataacaggc 1860
aatctaagcc actctatact acaagagatg gatttaaatt gtaacctgtt cttaccaaag 1920
aactaaataa aaaaatgagta cagagccaga gccagagttt caaaaatatc tcatctgtta 1980
aatgaagagt gtctcccata gaaaagcagt ggaggcccca cagggcaagt acaaaacaga 2040
attaaaactc aaaaaaaaaa aaaaaaaanc ncaagggggg gcccggtccc ca 2092
```

<210> 259

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<400> 259

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aattcggcac gaggcttcat tctctgacct ttctctctcc tcatttcggt gcatgtcctt 60
tctgcagctg cctttcagca caggtggctg cccccaggg ccaccgcttc tttcttgatc 120
ctctttcctt aacagtgact tgggcttgag tctggcaagg aaccttgctt ttagcttcac 180
caccaaggag agagaccaa agcctctgat ttttaatttc cataaaatgt tagaagtata 240
tatatacata tatatatattc tttaaatttt tgagtctttg atatgtctaa aatcattcct 300
ctgcctgaag cctkagttag cacatgarga actgtgttca ttaagtgtta ttaatgttga 360
actgaaaaaa aaaaacnagg ggggccg 387
```

<210> 260

<211> 3712

<212> DNA

<213> Homo sapiens

<400> 260

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tatccccgac gaccggatcc tgaggaggca gctgcggtgg cagctgctga gttctcgggtg 60
aaggtatttc atttctcctg tcccctcccc tccccacccc atctattaat attattcttt 120
tgaagatttc tcgttgtaa gccgcaaaag tggagagtgc gattgcagaa gggggtgctt 180
ctcgtttcag tgcttcttcg ggcggaggag gaagtggggg tgcacctcag cactatccca 240
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aagaacgaca tgatgcaatc ttcaggaaaag taagaggcat actaaataag cttactcctg 420
aaaagtattg caagctatgc cttgagctcc tcaatgtggg tgtagagtct aaactcatcc 480
ttaaaggggt catactgctg attgtggaca aagccctaga agagccaaag tatagctcac 540
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cagagggtca accaggacag aagcaaagca ccacattcag acgcctccta atttccaaat 660
tacaagatga atttgaaaac cgaactagaa atgttgatgt ctatgataag cgtgaaaatc 720
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ttctggaggg accgttcattg ccaccagga tgaaaatgga tagggaccca cttggaggac 1260
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tgagggctcc taaacacttt cttcctgaga tgttaagcaa agtaatcatc ctgtcactag 1920
```

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atagaagcga tgaagataaa gaaaaagcaa gttctttgat cagtttactc aaacaggaag 1980
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ttcctctctt cctactttgt cttcagcagt tagctaaatt acaagatcga gaatggttaa 2220
cagaactttt tcaacaaagc aaggtcaata tgcagaaaat gctcccagaa attgatcaga 2280
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tatagtattg aaattaagtc tacttaattt atcaagtcac gttcatgccc tgattttata 3600
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggaaaaaaa aaaaaaaaaa aa 3712

```

<210> 261

<211> 897

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 261

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ccgactacct ctccccggag gagatacaga ggcagctgca ggacatcgag aggcggctgg 180
acgccctgga gctccgcggc gtggagctgg agaagcgact gcgggcggcc gagggagatg 240
acgctgagga tagcctcatg gtggactggt tctggctcat tcacgagaag cagcttctgc 300
tgagacagga gtcagagctg atgtacaagt ccaaggccca gcgtctggag gagcagcagc 360
tggacatcga gggcgagctg cgccggctca tggccaagcc cgaggctctg aagtcactgc 420
aggagcgcg gcgggagcag gagctgctgg agcartacgt gagcaccgtg aacgaccgca 480
rtgacatcgt ggactcgctk gacgaggacc ggctccsgga acaagaggag gatcagatgc 540

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```

tgcgggacat gattgagaag ctgggcctcc agaggaagaa gtccaagtcc cgcttgtcca 600
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ctcggcccgg acctggcatc cggacttgga ctcggggcca tgggcttggc ccggaccggg 720
aaccgggact tgtactcggg gccgtgggct cggcccggac ccggcattcg gacttggact 780
cggaagggc ctctgtccc tacaaggggc atgtggacag caggacctg cgctaccgtc 840
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<210> 262

<211> 1905

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1791)

<223> n equals a,t,g, or c

<400> 262

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19
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 tgggtgtggc tggaatgggtg gcaggagtgg gcaccagtgc ggccccgggtg gccatgggga 1860
 ataaaccagc attgctgccca aaaaaaaaaa aaaaaaaaaa aaaaa 1905

<210> 263

<211> 1424

<212> DNA

<213> Homo sapiens

<400> 263

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 gtgactgttt gatttttaaa agtgtgactg tcagttgtat ctgttgcttt tctcaatgat 180
 tcagggatac aaatgggctt ctctcattca ttaaaagaaa acgcgacatc tttctaagat 240
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<210> 264

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

204

<220>
<221> misc feature
<222> (1196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1229)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1287)
<223> n equals a,t,g, or c

<400> 264
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ccgtccccgc gccccagcc gcccccaacc ctgccccacg ggccccggcg catgagttag 180
ctggagcaac tgagacagga ggccgagcag ctccggaacc agatccggga tgcccgaaaa 240
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cagatgagga cccggaggac cctccgtggg cacctggcaa agatctatgc catgcactgg 360
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tccctgccct tccaaccaag tttngtn 1287

<210> 265
<211> 991
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (966)

<223> n equals a,t,g, or c

<400> 265

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ccctggagct cttccgaacc aagggtgaatg cgctcactta tggggaggtg ctgcggctgc 180
ggcagactga acggctgcac caggagggca cactggctcc ccctatactg gagctgcggg 240
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aggggacgct cttccgcaag atcagcagcc ggcggcgcca ggataagctg tggttctgct 360
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naccctggag agtctgcccg agcaactccc tgtggccgac atgagggcac tcctgacagg 480
caaggactgc ccccatgtcc gggagaaggg ctccgggaag cagaacaagg acctctatga 540
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ggcacctga ccagcagaga ttgctgcaga aataaagtct gcttggctct tgggawaaaa 960
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa a 991
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<210> 266

<211> 2320

<212> DNA

<213> Homo sapiens

<400> 266

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ccccaccagt ggccactcca ttcagttcca agtccagtac caagcctgca gccgggggca 720
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ctccggctca gagccagaca cagttccatg ttcagcccca gccccagccc aagcctcagg 840
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tccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2320
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<210> 267

<211> 423

<212> DNA

<213> Homo sapiens

<400> 267

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acagcaaact gtcattggca ttgctacaaa gattgcccta cagatgaact gcaagatggg 120
aggrgagctc tggaggggtg acatccccct gaagctcgtg atgatcgttg gcatcgattg 180
tkaccatgac atgacagctg ggcggaggtc aatcgcagga tttgttgcca gcatcaatga 240
agggatgacc cgctggttct cagctgcat atttcaggat agaggacagg agctggtaga 300
tgggtcctaa gtctgcctgc aagcggctct gagggcttgg aatagctgca atgagtacat 360
gcccgaccgg atcatcgtgt accgsgtggc gtaggagacg gccagytgaa aacactgggt 420
act 423
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<210> 268

<211> 1846

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1816)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1832)

<223> n equals a,t,g, or c

<400> 268

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tcaactcagag gaaaaatgaa aaggaacaag aaagaagatt gcagcaggca gtgttaagca 180
gacagatgcc gtctgaaagc ttggacccag cgttcagtcc tcggatgccg tcctctgggt 240
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gtgtctttat gcctcgacct caagctgtgg gctcttccaa ttatgcttcc accagtgccg 420
gactgaagta tcctggaagt ggggctgacc ttcctcctcc ccaaagagca gctggagaca 480
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ggaacactca gacctcccag atttaactaa acaaaagaaa ctctccacct agcactgttt 660
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ttctgacaaa tcctagtgtt agttttatct gtggaggaaa gacatttaata aataaactgt 1560
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tagccctgag gtagttcatg aaaatgctgt gcactncatt ccatgggaat gaaatgttgg 1800
aaagctgac ttttcnggat ataaaatgtt gnatgatgaa aaaaaa 1846
```

<210> 269

<211> 601

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<400> 269

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ctgcccttgg gacaggtcca gacccatgga gcccccggg aggagcagca ggtccacagc 120
gtctcatact ctacaccagt attgctgtcc tactcaggtc cttgactcca tgaagcttac 180
cccctcaggc aggctggcag agagcaggga agaggaggag gaggaggaga ctgaggaga 240
ggaagaggaa gacgctcacc agttctgctg tccggcctcc gagtgcagta gtccctcctc 300
tcggtaactg agaggacaag ggccattttc tatgcagaag caaaagcctt aaccagsccc 360
tccttcccc caccacccc cccgcagatt ccccatggg accctgtccc ctgcttcagg 420
aaccagatgg gcaagcatcg tgccccttcc tccccacc ttcttcttgg aattcccatc 480
cccactgctg tctcctctgg actccagccc ctgaattaaa gaaactggag ccctangtcc 540
gactaaaatt tggganaagc aaacttggac ttggacttgg aactggatcc tcccgtaccc 600
g 601
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<210> 270

<211> 880

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (876)

<223> n equals a,t,g, or c

<400> 270

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cttgctaagt tgagatcagc tagacctgct ttcttttctc ctcaagtctg catttcctc 180
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aatctattct gtatccacca ggtggcagca tcttgtcata cgtgtcagga cttaggactg 480
cggggtttag gtagatgtc acggaaaaag ctagtctgtt ggtcaggcgg caccaatgag 540
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ttgaagacct actttgtcct ctacataggg tagcttctgt cagggaatct tggttcttcc 660
caagaaacac tgattttctt tcaggagagac ttcatgtgtt catttatttc caccacagca 720
gattttaaga aattataata tgtaatatgt gatatttata aagagtatat ctaacgtgaa 780
taaattatga agcatactaa tgagtaccta tgaccataa cacatatata ttaaacatt 840
ttaaatacca aaaaaaaaaa aaaaaaaaaa aaaaanaaaa 880
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<210> 271

<211> 2484

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (194)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2396)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2484)

<223> n equals a,t,g, or c

<400> 271

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210

```

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```

<210> 272

<211> 751

<212> DNA

<213> Homo sapiens

<400> 272

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caagggtcaag aaatcccaca gtttgatgta ttaaagaaat gacttatttc tactcaaaat 660
aaatggcatt gaagtctttc tttaaccctt tatgagttaa ttaataata atgatctgag 720
acaaaaaaaa aaaaaaaaaa aaaaaaaaaa a                                     751

```

<210> 273

<211> 3309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3279)

<223> n equals a,t,g, or c

<400> 273

```

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```

```

cttgctgggg tccccctcatc cacttgaggg cgcctgaggg ccaggarcag caggcaagga 660
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caagtacact ccacacatgc ataaaggaaa tcaaattgta tttttaagaa aatggaaaat 3240
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ttcgcctaa 3309

```

<210> 274

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (780)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (833)

<223> n equals a,t,g, or c

<400> 274

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tcccggtgcc gagcggcggc gttttttctt tcattgtttc tctgcctttt tgtggtgttc 360
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tcattgcagt caactgttgc acaggggaaa ccttggaaac cacagccagc agttcaggn 780
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tgt 843
```

<210> 275

<211> 2028

<212> DNA

<213> Homo sapiens

<400> 275

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<210> 276

<211> 1455

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (759)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1408)

<223> n equals a,t,g, or c

<400> 276

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```

<210> 277

<211> 1923

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1814)

<223> n equals a,t,g, or c

<400> 277

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215

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gga 1923

<210> 278

<211> 1380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1297)

<223> n equals a,t,g, or c

<400> 278

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<210> 279

<211> 1018

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1017)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1018)

<223> n equals a,t,g, or c

<400> 279

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ctccggccag cagccctacc cggggctcaa cacacaggct gtggctctgg acatccggat 960
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<210> 280

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1130)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1154)

<223> n equals a,t,g, or c

<400> 280

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ggtttactta atcaggacat gggcctaaga acaaaccttt tcccttcacg ataacatcca 180
tagacaactt attagaaggg actagagttt ttgcaaatat ccctgctgga tggggcctat 240
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catatccact tcttcccagt ctgcctttgg attaaagcac caagcagaga ccacattaat 600
tccctttgct atactgtgat ccttagtatg ttaattctta agaaaccaac atatcactga 660
aagaaggctg gcagaacgca agtgcatttt ttactgtgg gaagaaagat caagtgcagt 720
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```

<210> 281

<211> 1755

<212> DNA

<213> Homo sapiens

<400> 281

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agtcgtctat aaaaactcat ctctgcgcgt ctcttcgcca cattcgcttc ctgctttcgg 180
tgtgtctgtt gtgtcttggt gcgggcaccg cagtcgccgt gaagatggcg tctaccagcc 240
gtttggatgc tcttccaaga gtcacatgtc caaaccatcc agatgcgatt ttagtggagg 300
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acagaatcaa tctacctcga aatatagttg atcgaaacaa taatttattc aagcaagtat 660
atgaacagaa gagcctgaag ggaagagcta atgatgctat agcttctgct tgtctctata 720
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acatcaacat catagtttcc agtttgaaag gatgtgtatg tgagatttat tatgtatatt 1680
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```

<210> 282

<211> 1093

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (970)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1081)

<223> n equals a,t,g, or c

<400> 282

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actgggtccc atcgggtccc cctcacctgg gctcaccctc ggggggtctgg ccgtgagcga 180
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ccacttcacc aacagagact gcgactcgct caaggggctc tgccgcatca tgggcaacgg 480
cttcgcgggc tgcattgctgt tccccacat ctcccctgt gaggtgcgcg tgctcatgct 540
cctgtactcg tccaagaaga agatcttcat gggcctcatc ccctacgacc agagcggctt 600
cgtcagtgcc atccggcagg tcatcaccac ccgcaagcag gcagtgggac ctggtggtgt 660
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gtggcaggag cccaggcctg agcccaacag tcggtccaag aggtggctgc catccacgt 780
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```

<210> 283

<211> 1556

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1339)

<223> n equals a,t,g, or c

<400> 283

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agacttgaga gagttcacat tccactgtca gcaccagcct cagcaactgt gcagagacct 180
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acagaacaga agcacaaga ctcagccaag agttctctt attcctttg atcctcccc 480
aaggtgaggg cttaggcagc ttagaacc caggaaagaa cggaatccag gcaatctgtt 540
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<210> 284

<211> 1029

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (828)

<223> n equals a,t,g, or c

220

<220>
<221> misc feature
<222> (958)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (972)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (976)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (987)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1007)
<223> n equals a,t,g, or c

<400> 284
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cgactactcc gacctggcct tgctcctgca gatccccacg cagaatgcac aggcccgga 180
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cctccgaggc gtaactcccc actcagctga gatgttgccc cccaactttc gtccggctgc 360
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ttctgggagt tcccgggcag acggcgtttc ggtccggacc tattcctgct agtgcaggcc 480
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<210> 285
<211> 1583
<212> DNA
<213> Homo sapiens

<220>

221

<221> misc feature
 <222> (1411)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1531)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1557)
 <223> n equals a,t,g, or c

<400> 285
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 gccgagctga ccaacaggac acacagattc ctggagaaaag ccaaggcctt gaagatcagt 180
 ggtgtgatcg ggccttaccg tgagactgtg gactcggtgg agaggaaagt cagcgagata 240
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 gaagccgaaa gcctagacaa cactgtgaaa gaacttgctg aacaactgga atttatcaaa 480
 aactcagata ttcgggggtgc cttggatagc attaccaagt atttccagat gtctcttgag 540
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<210> 286
 <211> 1177
 <212> DNA
 <213> Homo sapiens

<400> 286
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 aagayatctc aaaaatgttta ccaatgtttt aagaagcttt gtgtgatatt cttccaaatg 120

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tagttaccaa atataatatg gtagaaaagg ctaaatacata cttaatgagc aaattgaagt 180
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aaagtgaatg tttttctctt cagctgatct aaaaatgaaa gcaaratatc ttatgtagaa 720
atattttgat aatattttta cagtgaactt tcccatgttt ttatgtctta agtttctttg 780
ctgctgttat gtaggttgca caagaacttt tactcacttg taattgtgcc tcagactttt 840
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caagcatcaa gtggtgtttg ttagaaataa actagagatt tttaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa acccccgggg gggggccc 1177
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<210> 287

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 287

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acaagtagct gcagtagcgt acggaattac agggtagacc caagcgtacg taaaatttaa 60
aaacaaagga ctatttaaaa atacagttaa ttaacaaacg tgaactactt tctgttacat 120
taggtgttcc ctagtgtttc ttaatttctt tttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaataat gcaaatgggc aattcgattt taatttctca aaagatactc tggtatccag 300
aagattaaaa tgccacatt gagtgcttaa aaaaaaaaaa acmactgtga tratktgagc 360
```

223

agaatggcca gtaagttaag ccttttttga tccnggtaat ccagggtatc catttaccat 420
ggaaagggga ttccccaac tactggccca gagggaaagt tggttttttn aaatttaagg 480
nggggaaatt ttanccctat aaaatt 506

<210> 288

<211> 948

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (926)

<223> n equals a,t,g, or c

<400> 288

ttnggccgag cttgggtcat ggcggcgccg ggcgcgctgc tggatgatggg cgtgagcggc 60
tcggggaaat ccaccgtggg cgccctgctg gcatctgagc tgggatggaa attctatgat 120
gctgatgatt atcaccgga gaaaaatcga aggaagatgg gaaaaggcat accgctcaat 180
gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240
tcgggacagc gtgtggttct agcctgttca gccctgaaga aaacgtacag agacatatta 300
acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaagga agcaaagcag 360
gctgagatgc agctcctggt ggtccatctg agcgggtcgt ttgaggtcat ctctggacgc 420
ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtccca gtttgagact 480
ctggagcccc cagcagctcc agaaaacttt atccaaataa gtgtggacaa aaatgtttca 540
gagataattg ctacaattat ggaaacccta aaaatgaaat gacaatgatt ttgtatcagt 600
ggtccaaaca gaactaagca taaatcattg tgccatccca aacctcgtc cagccgcctt 660
gcccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720
ttaggtgtaa ttttaggaat tatgctggtt catcaggaag cagaggggga gttttaaaag 780
tcaagcttaa attgaagttt aaattcatct ataaccaaat caaatgatca gaggaaattc 840
tgtaatcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900
cacaaataaa tgaaacttcg ctgtcnaaaa aaaaaaaaaa aaaaaaaaaa 948

<210> 289

<211> 1034

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 289

ggcacgagct cgtgccggtt tgacctggag catgggtcct ggaccaaatt gccccgcagc 60
ctgcgcatga gggataagag ggcagacttt gtggttgggt cccttggggg ccacattgtg 120
gccattgggg gccttggaag ccagccatgt cctttgggct ctgtggagag ctttagcctt 180

```

gcacggcggc gctgggaggc attgcctgcc atgcccactg cccgctgctc ctgctctagt 240
ctgcaggctg ggccccggct gtttgttatt gggggtgtgg cccagggccc cagtcaagcc 300
gtggaggcac tgtgtctgcg tgatggggtc tgaaggcttg gtgggagctg tccactggag 360
cagctcattg ccagangmrg ctatttctat ggctcctttt gctgctgagg aactcactg 420
tggctctgtg ggatgagaga ggcattgggg tgagcacttg aaactgccc ttggggcctt 480
gggttagggg agcctttgtc tttagtgcag gacacacata tgcttacacc tacctttatc 540
accattcgtt catgaatcat gcctagctcc atccttgccc tgggacctac taggccttcc 600
atccaactgg gaaatgggga gaagcaaagc tggcctcatg ctcttcaggg tcagttccta 660
tctggagttg accaggccta cccagttgc cattcctgaa aaatctcagc tgccaggctg 720
ccttttaggt ccctgtagac ccaggagagt tgagagggtg ggggacacag agagaataga 780
gaggatgttg gaactgccag agggccggag cgcaggagt caagtggagg aatgctggct 840
ttgagccctc tacactgctg gttgtatgac cttggacaag tcacttcacc tctctgtgcc 900
tcagcatcct catctataaa tggggatctc tgaaaccttc ctaccctacc tacctcacag 960
ggctgttgtg aggaccagg gagtttggtat gtggaagtaa aagtgtgtgct aaaacctaaa 1020
aaaaaaaaaa aaaa 1034

```

<210> 290

<211> 3091

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 290

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cccagtagct cgtgccgctc gtgnccgcca actctcagtt tgatcttaaa gtctgaataa 60
taaaacaaat cccagcagta atacatttct taaacctcac agtgcattgat atatcttttc 120
attctgatcc tgtgtttgca aaaatataca catgtatatc atagttcctc actttttatt 180
catttgtttt cctattacct gtagtaataa tattagtttag tacatggaat ttatagcatc 240
agctaccccc aggaacagca cctgacaggc gggggatttt ttttcaagtt gttctacatt 300
tgcataaatt atttctatta ttattcatgt atgttattta tttctgaatc aactagtcc 360
tgtgaaagta caactgcaag gcagaaagtg ttaggatttt gcatctaatt ttcattatca 420
tggattgat ggacctaga aaataaaaaat tagactaagc ccccaataa gctgcatgca 480
tttgtaacay gattagtaga tttgaatata tagatgtagt attttgggta tctagggtgtt 540
ttatcattat gtaagggaat taaagtaaag gactttgtag ttgtttttat taaatatgca 600
tatagtagag tgcaaaaata tagcaaaaat aaaaactaaa ggtagaaaag catttttagat 660
atgccttaat ttagaaaactg tgccagggtg ccctcggaat agatgccagg cagagaccag 720
tgccctgggtg gtgcctcctc ttgtctgccc tcatgaagaa gcttccctca cgtgatgtag 780
tgccctcgta ggtgtcatgt ggagtagtgg gaacaggcag tactgttgag aggagagcag 840
tgtgagagtt tttctgtaga agcagaactg tcagcttggt ccttgaggct tccagaacgt 900
gtcagatgga gaagtccaag ttccatgct tcaggcaact tagctgtgta cagaagcaat 960
ccagtgtggt aataaaaagc aaggattgcc tgtataattt attataaaat aaaagggtatt 1020
ttaacaacca acaattccca acacctcaa agcttggtgc attttttggg atttgagggtt 1080
tttatctgaa ggttaaaggg caagtgtttg gtatagaaga gcagtatgtg ttaagaaaag 1140
aaaaatatg gttcgcgtag agtgcaaat agaactagaa agttttatc gattatcatt 1200
ttgagatgtg ttaaagtagg ttttactgt aaaaatgtatt agtgtttctg cattgccata 1260
gggcctggtt aaaactttct cttaggtttc aggaagactg tcacatacag taagcttttt 1320
tccttctgac ttataataga aaatgttttg aaagtaaaaa aaaaaaatc taatttgga 1380
atgtgacttg ttagtttctg tgtttgaaat catggttcta gaaatgtaga aattgtgtat 1440

```

```

atcagatact catctaggct gtgtgaacca gcccagatg accaacaatcc ccacacctct 1500
acatctctgt cccctgtatc tcttcctttc taccactaaa gtgttccctg ctaccatect 1560
ggcttgtcca catgggtgctc tccatcttcc tccacatcat ggaccacagg tgtgcctgtc 1620
taggcctggc caccactccc aacttgacct agccacattc atctagagat ggttcctgat 1680
gctgggcaca gactgtgctc atggcaccca ttagaaatgc ctctagcatc tttgtatgca 1740
tcttgatttt taaaccaagt cattgtacag agcattcagt tttggctgtg gtaccaagag 1800
aaaaactaat caagaatata aaccacattc caggctgctg ttttctctcc atctacaggc 1860
cacactttta ctgtatttct tcatacttga aattcattct gctattttca tatcagggta 1920
cagacttata aggggtgcatg ttctttaaag gtgcataatt attcttattc cgtttgctta 1980
tattgctaca gaatgctctg ttttggtgct ttgagttctg cagacccaag aagcagtgtg 2040
gaaattcact gcctgggaca cagtcttata agaattgttg cagggtgactt tgtatcagat 2100
gttgcttctc ttttctctgt acacagattg agagttacca cagtggcctg tcgggtccac 2160
cctgtgggtg cagcacagct ctctgaaagc aagaaccttc ctacctattc taacgttttt 2220
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caaaacttta agtaccctat cattaataaat ctggttttaa aagtagctca agtaagggat 2580
gctttgtgac ccagggtttc tgaagtcaga tagccattct tacctgcccc ttactctgac 2640
ttattgggaa agggagaact gcagtgggtg ttctgttgca gtggcaaagg taacatgtca 2700
gaaaattcag aggggtgcat accaataatc ctttggaac tgatgtctt actgggtgtc 2760
agaatgaaaa tgtaggtatt tattgtcaga tgatgaagt cattgttttt ttcaaaattg 2820
gtgttgaaat atcaactgtc aatgtgttca cttatgtgaa agctaaattg aatgaggcaa 2880
aaagagcaaa tagtttgtat atttgaata cttttgtat ttcttacaat aaaaatattg 2940
gtagcaataa aaaataataa aaacaataac tttaaactgc tttctggaga tgaattactc 3000
tcctggctat tttctttttt actttaatgt aaaatgagta taactgtagt gagtaaaatt 3060
cattaaattc caagttttag caaaaaaaaa a 3091

```

<210> 291

<211> 518

<212> DNA

<213> Homo sapiens

<400> 291

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aggcatgaag aagagtgtgg gtactgtttc ctccacagcg gccagagtca ggggtggggag 60
tgagtccagt tgagggggaa acagtaccag cactgcgggg catgaagaag agtgtggggc 120
tgccggtggc cgtgcagtgt gtggtctctg cctggcaaga agagtgtgtg ctgcggttca 180
tgccggaggt ggagcgactg atgacctctg aaaagcagtc atcctgatgg ctctggctcc 240
agaggacctg agactcacac tctctgcagc ccagcctagt cagggcacag ctgccctgct 300
gccacagcaa ggaaatgtcc tgcattgggc agaggcttcc gtgtcctctc ccccaacccc 360
ctgcaagaag cgccgactcc ctgagtctgg acctccatcc ctgctctggt cccctctctt 420
cgctctgatc cctccacccc catgtggcag cccatgggta tgacatagcc aaggcccaac 480
taacagtcaa gaaacaaaaa aaaaaaaaaa aaaaattc 518

```

<210> 292

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (468)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (475)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (479)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (482)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (489)
 <223> n equals a,t,g, or c

<400> 292
 ctcgtgccga attcggcacg agcaacgtcg ctccagctgc tcttgacgac tccacagata 60
 ccccgaaagcc atggcaagca agggccttgca ggacctgaag caacagggtg aggggaccgc 120
 ccaggaaagcc gtgtcagcgg ccggagcggc agctcagcaa gtggtggacc aggccacaga 180
 ggcggggcag aaagccatgg accagctggc caagaccacc caggaaacca tcgacaagac 240
 tgctaaccag gcctctgaca ccttctcttg gatcgggaaa aaattcggcc tcctgaaatg 300
 acagcaggga gacttgggtc ggcctcctga aatgayagca ggagagactg ggtgaccccc 360
 cttccaggcg ccattctagca cagcctggcc ctgatctccg ggcagccacc acctcctcgg 420
 tctgccccct cattaaaatt cacgttncca aaaaaaaaaa raaagggnng ccgcntagn 480
 gntccaagnt tagttacg 498

<210> 293
 <211> 469
 <212> DNA
 <213> Homo sapiens

<400> 293
 ggccagccct ggggcgcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60
 gatccaacgt cgctccagct gctcttgacg actccacaga taccggaag ccatgggaag 120
 caaggggcttg caggacctga agcaacaggt ggaggggacc gccaggaag ccgccatgga 180
 ccagctggcc aagaccaccc aggaaacat cgacaagact gctaaccagg cctctgacac 240
 cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggag acttgggtcg 300

227

```
gcctcctgaa atgayagcag ggagacttgg gtgaccccc ttccaggcgc catctagcac 360
agcctggccc tgatctccgg gcagccacca cctcctcggg ctgccccctc attaaaattc 420
acgttcccaa aaaaaaaaaa aaaaaaaaaa gggggggccc gtccccatt 469
```

<210> 294

<211> 668

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (568)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (652)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (658)

<223> n equals a,t,g, or c

<400> 294

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gcacagaagg gggaggccaa agtgggtggg agcgcgtgct gttgggagtt gcttgagggt 60
tggcggcgcg gggctgaagg ctagcaaacc gagcgatcat gtcgcacaaa caaatttact 120
attcggacaa atacgacgac gaggagtgtt agtatcgaca tgtcatgctg cccaaggaca 180
tagccaagct ggtcccataa acccatctga tgtctgaatc tgaatggagg aatcttggcg 240
ttcagcagag tcagggatgg gtccattata tgatccatga accagaacct cacatcttgc 300
tgttccggcg cccactacct aagaaaccaa agaaatgaag ctggcaagct acttttcagc 360
ctcaagcttt acacagctgt ccttacttcc taacatcttt ctgataacat tattatgttg 420
ccttcttgtt tctcactttg atatttaaaa gatgttcaat aactgtttg aatgtgctgg 480
taactgcttt gcttcttgag tagagccacc accaccatag cccagccaga tgagtgtctc 540
gtggaccaca gcctaagctg agtgtgancc cagaagccac gatgtgctct gtatccagac 600
acacttggca gatggaggaa gcatctgatt gagacatggt gtacaggctn gnaatgcngt 660
ttgttttc 668
```

<210> 295

<211> 1400

<212> DNA

<213> Homo sapiens

<400> 295

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gctttgtcct ccagtggctg gtaggcagtg gctgggaggg agcggcccaa ttagtgctcg 60
gcggcccgtg gcgaggcgag gtccggggag cgagcgagca agcaaggcgg gaggggtggc 120
```

```
cggagctgcg gcggctggca caggaggagg agcccgggcg ggcgaggggc ggccggagag 180
cgccagggcc tgagctgccg gagcggcgcc tgtgagtgag tgcagaaagc aggcgcccgc 240
gcgctagccg tggcaggagc agcccgcacg ccgcgctctc tccctgggcg acctgcagtt 300
tgcaatatga ctttgaggga attctcggct ggagagcaga agaccgaaag gatggataag 360
gtgggggatg ccctggagga agtgctcagc aaagccctga gtcagcgcac gatcactgtc 420
ggggtgtacg aagcggccaa gctgctcaac gtcgaccccg ataacgtggt gttgtgcctg 480
ytggcggcgg acgaggacga cgacagagat gtggctctgc agatccactt caccctgate 540
caggcgtttt gctgcgagaa cgacatcaac atcctgcgcg tcacaacccg ggccggctgg 600
cggastcctg ctcttgagga ccgacgctgg ccccgcgcg agcgagggcg ccgagcagcc 660
cccgacctg cactgcgtgt ggtgacgaat ccacattcat ctcaatggaa ggatcctgcc 720
ttaagtcaac ttatttgttt ttgccgggaa agtcgctaca tggatcaatg ggttccagtg 780
attaatctcc ctgaacggtg atggcatctg aatgaaaata actgaaccaa attgactga 840
agtttttgaa atacctttgt agttactcaa gcagttactc cctacactga tgcaaggatt 900
acagaaactg atgccaaggg gctgagtgag ttcaactaca tgttctgggg gcccgagat 960
agatgacttt gcagatggaa agaggtgaaa atgaagaagg aagctgtgtt gaaacagaaa 1020
aataagtcaa aaggaacaaa aattacaaa aaccatgcag gaaggaaaac tatgtattaa 1080
tttagaatgg ttgagttaca ttaaaataaa ccaaatatgt taaagttaa gtgtgcagcc 1140
atagtttggt tatttttggg ttatatgcc tcaagtaaaa gaaaagccga aagggttaat 1200
catatttgaa aaccatattt tattgtattt tgatgagata ttaaattctc aaagttttat 1260
tataaattct actaagttat tttatgacat gaaaagttat ttatgctata aattttttga 1320
aacacaatac ctacaataaa ctggtatgaa taattgcatc aaaaaaaaaa aagggggggc 1380
gctcgcgatc tagaaactag                                     1400
```

<210> 296

<211> 960

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (859)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (933)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (950)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (959)

<223> n equals a,t,g, or c

<400> 296

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gtcagcccgga gcccggtgcrq gccctttaag ggccgggggc gtgtagcggg cccgccccct 60
ccccgcggcg cccgcagtcg gttaagtgcg agccccggcg caggggccgg atctggccgg 120
gggcccggcg cgggtgtgga gcggcgcgtc atgtacacca tcaccaaggg gccagcaag 180
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ctcctgaaat gccggcagcc cgcgcgcgcg acctcgagc ccccgcgggc gcagccyttt 300
gcgcascgccc gggaccctgg cccctgtcga gtccagggcc aaggcttggt ttcaatcgtg 360
tgaatggccg gcgggcccc tccacgtccc catccttcga ggggacccag gagacctaca 420
cagtggccca cgaggagaat gtccgctttg tgtccgaagc ctggcagcag gtgcaacagc 480
agctggatgg tggccagccc ggtgagggcg ggccaaggcc tgtgcagtac gtggagagga 540
cccccaatcc ccggctgcag aactttgtgc ccattgacct agacgagtgg tgggcgcanc 600
agttcctggc gagaatcacc agctgttcct agtggctgct gggagggggc gctgctacac 660
ggccgacctg tcgccaggag agaagcatgg cgccctgccc acccactgcg cctggctggg 720
tgccggccac acctgaagtg ccagcatttg gacttttgca ctttttttc ccttggcccc 780
gctgtcccaa ccaagctgcc atgccaaggg ccgaaccgct ctgacctcag ccctgctcac 840
tgtgccagg gaccagcgna caccctggg gctggcaggg aggagctcca ggctaataaa 900
gtggagaaac tgtcaaaaaa aaaaaaaaaa aancctgagg gggggcccg ncccaattnc 960
```

<210> 297

<211> 657

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<400> 297

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caaaagctgg agctccaccg cggtgacgnc cgetctagaa ctagtggatc ccccgggctg 60
caggaattcg gcacgagctc gtgccngncc tttggagcag agaggaggca atggccacca 120
tggaagaaca ggtgatctgc gccctggtcc tgggtgtccat gctggccctc ggcaccctgg 180
ccgaggccca gacagagacg tgtacagtgg ccccccgtga aagacagaat tgtgggtttc 240
ctggtgtcac gccctcccag tgtgcaataa agggctgctg tttcgacgac accgttcgtg 300
```

```

gggtcccctg gtgcttctat cctaatacca tcgacgtccc tccagaagag gagtgtgaat 360
tttagacact tctgcaggga tctgcctgca tcctgacgcg gtgccgtccc cagcacggtg 420
attagtccca gagctcggct gccacctcca ccggacacct cagacacgct tctgcagctg 480
tgcctcggct cacaacacag attgactgct ctgactttga ctactcaaaa ttggcctaaa 540
aattaaaaga gatcgatatt aaaaaaaaaa gaaaaggaaa aaaaagggcg gccgtctaag 600
aggatccaag cttacgtaac gcgtgcatgc gaaggcata gctcttctat agtgtca 657

```

<210> 298

<211> 892

<212> DNA

<213> Homo sapiens

<400> 298

```

gcagccaggc tctcaggga ggtccatgct gcttggcctg agttcaaggc tttctgcctg 60
tagcctggac tcccgaggac ccccgaggac aggtggcttc cccgtggcat ctccacaccg 120
cctctgcctg cccctgtgga ctgatgctat cgcgcaccgt cccacgaccc caccctcagc 180
tcctgaagcc ggggtctgag cctgcatcac ctctggcctc tcatcccca ctctcctgag 240
agcagtggtc acagcggccg gccgctctgc tgagaaggca gagaggcagg ctcaggcctc 300
agcgtggaca gcagggataa ggggcacgaa ggacggggac tcggcccctt cagaattcct 360
caggactctc aggtgcagct ttgccaaaaa ggaacttttc atgtcatgca gttgagggga 420
cttagtctca atcccaggct cctcttgact ctgggcagct ttaatcaggt tgggcagcct 480
ctgctacagc gtggagtggg atggctctct tccctcagcc acgccgcttg tgaggacaga 540
ggtgggggag tgggaagtgg gaagtcacca gagaacagga gagggatttg agggcgcgac 600
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cctggccctg cccagcctct gtcttgggag ctcagcccca gggttcggtc gtcagcagtt 720
tcccaagaac aagatgtgat ggcattctgt gctgaaaccc tgatgaggac caggccccct 780
gcaccgctgt cagcctgagg aattaaagct ttggtgctgg gaaragcaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tc 892

```

<210> 299

<211> 1624

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1621)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1623)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1624)

<223> n equals a,t,g, or c

<400> 299

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cgagtccccc gatggtgtta tacattaaat atccaggatg gagaagccac atgctactca 120
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nann 1624

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<210> 300

<211> 1969

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<400> 300

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gtccttccgc aaagtgttcc ggcagagcaa attccggcat gtgttcgggc agccggtcaa 180
gaacgaccag tgctatgagg acattcgcgt gtcccggtgt acctgggaca gcaccttctg 240
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacga cgtcgtggg 1969
```

<210> 301

<211> 1882

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1840)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1849)

<223> n equals a,t,g, or c

<400> 301

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gagcctggcc gtccgcctgg aggtcaccga cggccccccg gcacccccgc ctactgggac 180
```

```

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ctgggtggacc tgccaccatc acaataaagt ccccatctga tttttaaaaa aaaaaaaaaa 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaana aaaaaaatg 1860
ggaataaaaa taacaaaaaa at 1882

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<210> 302

<211> 2804

<212> DNA

<213> Homo sapiens

<400> 302

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attgagcagc tcttaagcaa catgttcgag ggggagcaga gccagtctgt catcgtcagt 180
gggatccagg tgctgctgac mctgctggag ccaggaggcg cgaggtcoga gtccgtgacc 240
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gagaacgacc gtgtacagtg tgcgggaggc cctcggaaa gctacatggg tcacctgaca 780
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<210> 303

<211> 3859

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (890)

<223> n equals a,t,g, or c

<400> 303

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<210> 304

<211> 3378

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3361)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3365)

<223> n equals a,t,g, or c

<400> 304

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<213> Homo sapiens

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<222> (664)

<223> n equals a,t,g, or c

<400> 307

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<221> misc feature
<222> (2166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (2168)
<223> n equals a,t,g, or c

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<222> (6158)

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<210> 310

<211> 2086

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1763)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1769)

<223> n equals a,t,g, or c

<400> 310

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cgctcccca cgccgtcaga gatcctcagc aacgcgggtc tcaggtttga ggtggtcccc 180
tccaagttta aagagaagct ggacaaagcc tccttcgcta ctccgtatgg gtacgccatg 240
gagaccgcca agcagaaggc cctggagggtg gcccaaccggc tgtaccagaa agacctgcgg 300

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gcccccgacg tggtcattgg agcggacacg atcgtgacag tcggggggct gattctggag 360
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agcgtgttca caggtgtcgc gatcgtccac tgctccagca aagaccatca gctggacacc 480
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aagaaagcaa aagccaaaaa aaaaaaaaaa aaaaatttgg gggggg 2086

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<210> 311

<211> 2163

<212> DNA

<213> Homo sapiens

<400> 311

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tccagcccta cctggcgcgg cggcccaagc tgcaagctgag cgtgtacacc acgacgaggt 180
cccacctggg tgctgagaac aacatcgacc tggctctgaa tgtggaagac tttgatgtgg 240
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<210> 312

<211> 1397

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1397)

<223> n equals a,t,g, or c

<400> 312

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cggcgggatg gaggcggcgg ccgagcctgg aaacctggcc ggcgtcaggc acatcatcct 120
ggctcctctca ggaaaggggg gcgttgggaa aagcaccatc tccacggagc tggccctggc 180
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1397

<210> 313

<211> 4106

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 313

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<210> 314

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (497)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (498)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (502)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 314

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ccatgccc aa gtgtcccaag tgcaacaagg aggtgtactt cgccgagagg gtgacctctc 180
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ttgtcccag atgcccaggg ctcccttggt gccccaatg ctctcagtaa acctgaacac 480
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<210> 315

<211> 1938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1455)

<223> n equals a,t,g, or c

<400> 315

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ccccttccat gagctgacgg tgcacgaggc tgcgtgcgcc caccggacca agacaggcag 600
tgagctgatg gagatcctgg atgggatgga ccagagccac cgcaaggaga tgcagctgta 660
```

```

caacagcatc ttcagcctgc tcagcttcga gaagattggc tacacagagg tccagttccg 720
gccgtaccgc acagacgact tcatcacgcg cctgtactat gagacgcca ggttcacagt 780
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ctaccacttt gtcttcacca acgagagcaa cgagacggac tacgtgccac tgcccatcat 1020
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agggctcagc aggcattttc ggaaagcagg gtgaaattgt ctctcccag gaaaaagatt 1860
aaactccttg caggctcttg gataagttac acaaaaaaaa aaaaaaaaag ggcgcccgt 1920
cgcgatctag aactagtc 1938

```

<210> 316

<211> 818

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (814)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (818)

<223> n equals a,t,g, or c

<400> 316

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ggggccgccc ggcgccccca gcagcccag cggggcgca cagccggggc gcagncgcgc 60
ccccgcgcg gattgacatg atgtttccac aaagcaggca ttcgggctcc tcgcacctac 120
cccagcaact caaattcacc acctcgact cctgcgaccg catcaaagac gaatttcagc 180
tactgaagc tcagtaccac agcctcaagc tcgaatgtga caagttggcc agtgagaagt 240
cagagatgca gcgtcactat gtgatgtact acgagatgtc ctacggcttg aacatcgaga 300
tgcacaaaca ggctgagatc gtcaaaaggc tgaacgggat ttgtgcccag gtcctgccct 360
acctctccca agagcaccag cagcaggtct tgggagccat tgagaggggc aagcaggtca 420

```

250

```
ccgctcccca gctgaactct atcatccgac agcagctcca agcccaccag ctgtcccagc 480
tgcaggccct ggccctgccc ttgacccac taccctgagg gctgcagccg ccttcgctgc 540
cggcggtcag cgcaggcacc ggccctctct cgtgtgccgc gctgggttcc caggcccacc 600
tctccaagga agacaagaac gggcacgatg gtgacacca ccaggaggat gatggcgaga 660
agtcggatta gcagggggcc gggacaggga ggttgggarg ggggacarag gggagacaga 720
ggcacggaga gaaaggaatg tttagcaca gacacagcgg agctcgggat tggctaaayt 780
ccatagtatt atgktggccc gggggggggc ccancan 818
```

<210> 317

<211> 837

<212> DNA

<213> Homo sapiens

<400> 317

```
gggcacgagc gacatggagc tggtcctcgc gggccgcccg gtgctggtca ccggggcagg 60
caaaggtata gggcgcgcca cgggtccagg gctgcacgcg acgggcgcgc ggggtggtgc 120
tgtgagccgg actcaggcgg atcttgacag ccttgctccg gagtgcccg ggatagaacc 180
cgtgtgctgt gacctgggtg actgggaggg caccgagcgg gcgctgggca gcgtggggcc 240
cgtggacctg ctggtgaaca acgcccgtgt cgcctgctg cagcccttc tggaggtcac 300
caaggaggcc ttgacagat cctttgaggt gaacctgcgt gcggtcatcc aggtgtcrca 360
gattgtggcc aggggcttaa tagcccgggg agtcccagg gccatcgtga atgtctccag 420
ccagtgtccc cagcgggcag taactaacca tagcgtctac tgctccacca agggtgccct 480
ggacatgctg accaaggtga tggccctaga gctcggggcc cacaagatcc gagtgaatgc 540
agtaaacccc acagtgggtg tgacgtccat gggccaggcc acctggagtg acccccacaa 600
ggccaagact atgctgaacc gaatcccact tggcaagttt gctgaggtag agcacgtggt 660
gaacgccatc ctctttctgc tgagtgaccg aagtggcatg accacgggtt ccactttgcc 720
ggtggaaggg ggcttctggg cctgctgagc tccctccaca cacctcaagc cccatgccgt 780
gctcatccta ccccaatcc ctccaataaa cctgattctg ctgccccaaa aaaacga 837
```

<210> 318

<211> 1448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (878)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1198)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1445)

<223> n equals a,t,g, or c

<400> 318

```
gggtctggag agcaggactg ggtcaacagg cccaagaccg tgcgcgacac gctgctggcg 60
ctgcaccagc acggccactc ggggccttcg agagcaagtt taagaaggag ccggccytga 120
ctgcaggcag gttgttggtg ttcgaggcca acggggccaa cgggtctaaa gcaggtaggg 180
gcggctgtga agtgaggggg tctaggggag aaaaggggac ggagagcaga ggaaggggtg 240
ttctttggat tcaccathtt accccagccc agaaacaaca aacacccacac ttcctgatct 300
cctgaggcgg aaccagtgtc tgggtggcaac gtgttcattg ctgaagcagc ataacaaaga 360
atgagtcaga ctgggctgat acgctctgaa cacgggggtt tcctttccca gcacattctt 420
ggatgggagc atgagggcac cagtcacctt twaacctatt gggggacatt agcagtcaca 480
tgttgagtgc aaacgaggta cttttgtgca tgtktaaaaa caggcagtta caagcgtgtc 540
attttcagt gctccathtt aaatcagttc gctgcctcag aatcccgtac gcctgaaggt 600
tttaagttgc atgtgcacct gaaactcgta tatgagtatt ttctgtctgt gcttttagag 660
aggaggaatt ctgtaacgac ttttgtttcg ggtaggaag agaattgatc ctttcagtgc 720
accgcactt atgttacctt tttcctttta tttctttgtg tttccagttg caagaacagc 780
aaggaaaagg aagccctctc cagaaccaga aggtgaagtc gggcccccta agatcaacgg 840
agaggccag ccgtggstgt ccacatccac agaggggntc aagatcccca tgactcctac 900
atcctctttt gtgtctccgc caccacccac tgcctcacct cattccaacc ggaccacacc 960
gcctgaagcg gcccagaatg gccagtcccc catggcagcc ctgatcttag tagcagacaa 1020
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tagcaacagt ccgccctctc cgtcctctat gaaccaaaga aggctgggcc ccagagaggt 1140
ggggggccag ggagcaggca acacaggagg actggagcca gtgcaccctg ccagcctncc 1200
ggacttctct ctggcaacca gtgcccgtgt gtgtgcacc ctctgccacg agcggctgga 1260
ggacaacat tttgtgcagt gccgtccgtc ctttgacaag ttctcttctt tgctcagaca 1320
aagataaaca gagggagtag tgagaggctt ttccagtggg gaaaatgcct ctgtgggtca 1380
atgtccctgg gcttntnaag gggaattcaa catcttcttg ggtgtaagtg aaaaaaaaaa 1440
aaacntgg                                     1448
```

<210> 319

<211> 1493

<212> DNA

<213> Homo sapiens

<400> 319

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tcgaccacag cgtccggaag taatgatgac aaaatactct aacctttcct tggagagtca 60
taacttctcg ctgactgctt cacctcttac aagtctgccc atcccggaag taatgatgac 120
aaaatactcc aaccttttct tggaaagtca taacatctca ctgactgaac attccagtgt 180
gccagtggaa aaaaatatca ctttagaacg accttctgct gtagaactca catgtcagtt 240
cacaacttct ggggatgtga attcagtaaa tgtgacttgg aaaaaagggg atgaacaact 300
taagaattac catgtcagtg ccacagaagg catcctgtat acccagtaca agttttccat 360
cattaatagc gaacaactgg gaagctattc ttgtttcttt gaagaggaaa aggaacgaag 420
gggcacatth aatttcggag tccctgaagt tcagagaaaa aacaaaccat tgatcactta 480
tgtgggggat tccgttgctt tgggtgtgta atgccgacac tgtgtctcct taaattggac 540
ctggtacagt ggtaatagga gtgtacaggt tcctcttgat gttcacatga atgaaaagta 600
```

252

```
tgcgatcaat ggaacaaacg cgaatgaaac aaggcttaag ataatgcagc tttcagaaga 660
cgataaagga tcttattggt gccatgcaat gttccagttg ggcgagagcc aagaaagtgt 720
tgaactggtt gtgataagtt atttggtgcc cctcaaacca tttcttgaa tagttgttga 780
agttattctt ttagtggtta ttattctgtt ttgtgaaatg cacacccaaa agaaaaagat 840
gcacatggat gatgggaaag aatttgaaca agttgaacag ttgaaatcag acgatatcaa 900
cggcatagaa aataatgcc ccaggcacag aaaaaatgaa gctatgagcc agtgaaagca 960
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tcctgtgaag aacatctgag tttttatttt tacaaggatg aaaagtttat gtgatatgct 1080
cagcagtagt tttgcaataa tacctgctat ctcagatcca aagatatatt ttccttctgt 1140
gattatttta cattaaagca aggtaaatca tattaatat gttctatgag ctataacca 1200
ggataactaa tttcatcttg gtcatacagg gatgcacaga agagatacca gcaaaaccag 1260
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agaaaacttt tttgccattt gccttgkttt tttttctaata tatgcttact atgtgtagaa 1380
atatttgtaa taattttcat gtaatgkta cctctgtca tattggataa aaacatcttt 1440
attaagaaat gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggcgggc cgc 1493
```

<210> 320

<211> 609

<212> DNA

<213> Homo sapiens

<400> 320

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ggcacgagtg gcttctgacc ctttcttccg ccactaccgc cagctcaatg agaagctagt 60
gcagctcatc gaagactata gccttgcttc ctttatccct ctcaacatcc aggacaagga 120
gagcatccag cgagtccctgc aggctgtgga taaagccaat ggatactgtt tcggagccca 180
agagcagcga acttggaagc catgatgtct gccgcaatgg gagccgactt ccatttctct 240
tccacactgg gcatccagga gaagtacctg gcaccctcga accagtcagt ggagcaggaa 300
gccatgcagc ttagtaacaa aggtggaccc tggagagcag gatgcataat ccagcactgg 360
ggaaagtgga ggctcctgat gcaggctgca gacccaagag caagtccctc cagccagagc 420
tggcgggctg gcaaggggat attcagctct gcaaaggact tctggccaaa aagccagaca 480
tggtgccaag cagaacaccc ccatactgt cagtgtgtgc cgtgagctct ggccctgcca 540
ccagaaagtc gagcactggg cctagtcagg ctgtgatgaa atgtgctaca atacaagagt 600
ttattttct 609
```

<210> 321

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 321

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tagtggatcc cccgggctgc aggaattcgg cagcagcaga gcttcgctct tgetgctccc 60
ctgaggtgaa ctgaagccag cagccccgca tcatgtcaaa gctcggccgg gccgcccggg 120
gcctcaggaa gcccgaggtc ggcgggtgtra tccgggcgat cgtgcgggca ggccctggcca 180
tgcccggggc cccactaggc ccagtgtctg gtcagagagg cgtttccatc aaccagtttt 240
gcaaggagtt caatgagagg acaaaggaca tcaagggaagg cattcctctg cctaccaaga 300
tttttagtgaa gcctgacagg acatttgaaa ttaagattgg acagcccact gtttcctact 360
```


253

tcctgaaggc agcagctggg attgaaaagg gggcccggca aacagggaaa gaggtggcag 420
gcctgggtgac cttgaagcat gtgtatgaga ttgcccgnat caaagctcag gatgaggcat 480
ttgcctgcag gatgtacccc tg 502

<210> 322

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1952)

<223> n equals a,t,g, or c

<400> 322

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ggagcctggg cgcccggggc tccgccgcga ccccatcggg tagaccacag aagctccggg 120
acccttccgg cacctctgga cagcccagga tgctgttggc caccctcctc ctcctcctcc 180
ttggaggcgc tctggcccat ccagaccgga ttatttttcc aaatcatgct tgtgaggacc 240
ccccagcagt gctccttagaa gtgcagggca ccttacagag gcccctggtc cgggacagcc 300
gcacctcccc tgccaactgc acctggtcga tcctgggcag caaggaacag actgtcacca 360
tcaggttcca gaagctacac ctggcctgtg gctcagagcg cttaaccta cgtccccctc 420
tccagccact gatctccctg tgtgaggcac ctcccagccc tctgcagctg cccgggggca 480
acgtcaccat cacttacagc tatgtgaggc ccagagcacc catgggccag ggcttccctg 540
tctcctacag ccaagattgg ctgatgtgcc tgcaggaaga gtttcagtgc ctgaaccacc 600
gctgtgtatc tgctgtccag cgctgtgatg gggttgatgc ctgtggcgat ggctctgatg 660
aagcagggtg cagctcagac cccttccctg gcctgacccc aagaccgctc ccctccctgc 720
cttgcaatgt caccttgag gacttctatg gggctcttct ctctcctgga tatacacacc 780
tagcctcagt ctcccacccc cagtcctgcc attggtgctg gaccccatga tggccggcgg 840
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tgatgcgacg cctggtacgc cgtctccgcc gctggggctt gctccctcga accaacaccc 1860
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ctggagtggg gcaggccctg cgaggccgcc tgttgcccag cctggggccc ccaggaccaa 2160

254

```

ccccgagccc ccctggaccc cacacagcag tcctggccct ggaagatgag gacgatgtgc 2220
tactgggtgcc actggctgag ccgggggtgt gggtagctga ggcagaggat gagccactgc 2280
ttacctgagg ggacctgggg gctctactga ggcctctccc ctgggggctc tactcatagt 2340
ggcacaacct tttagagggt ggtcagcctc ccctccacca cttccttccc tgtccctgga 2400
tttcagggtac ttgggtgggc tcccgttgac cctatgtagc tgctataaag ttaagtgtcc 2460
ctcaggcagg gagagggtc acagagtctc ctctgtacgt ggccatggcc agacacccca 2520
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taaagttctt agaggatmaw aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 2630

```

<210> 323

<211> 1874

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1735)

<223> n equals a,t,g, or c

<400> 323

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tcgacccacg cgctccggccg gggcgccctc cggaagcttt tccaactttc cagaagtttc 60
tcggganggg cgggaggagg ggaacgccat atatagacct ggagagccgg gagcgcgag 120
agtgaatcg gtccgcggct cgagtgggtc tctagtccgg cgccagccgc ccggcccagc 180
cctcacaggt ccttcgtggt gcataccatc cgctcccag ccatgcgctt cctcctgctt 240
accagcactt gctgcctcct ggccatggcc ctggctgccg aggtgaagaa gccagcggcc 300
ccaggcacag cagagaagct garcccaaaa gcggccacgc tggcagagcg cagtgtctggc 360
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tcgcctgtgg tgggtggctc atccctgggg cttgtgtcgc tggggggcaa ggccaccaca 480
gcgtcccagg ccaaggcggg gctgagtgc gagcagytgc gtgatgagga ggtgcacgcg 540
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gggacgagaa gttccaccac aagatgggtg acaaccgagg cttcatgggtg acccgctcgt 900
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tcgacaagaa caaggcagac ctgtcacgca tgtcaggcaa gaaggacctg tacctggcca 1260
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aggggtgaaa gatgcgagat gagctgtagg gccccaggga tggcaggagg cagcccaagg 1500
ctcctgagac acatgggtgc tatggggggg agctgaggtg ccgaccttgg atgtgccatg 1560

```

```

gggtgggggt gggaaaacag agcaggcttc ctggatgtct gagcagatct tcccaggcag 1620
aattgactct gtctggatgt gggcccccag ataccgtgat gctgagcccg gacacscac 1680
attctgrggr ccctgggggc agttggcgtg tcttgccctc agcatcctgg gattnaagcc 1740
tgccttcaat cagtgttcat atttatagcc aagtgccttc tcatctgtga gacagaatcg 1800
agctargggg cttcagccca gccctgtgga atggggaccg tcttttcctt accctaccat 1860
cacctcagcc ctaa 1874

```

<210> 324

<211> 2325

<212> DNA

<213> Homo sapiens

<400> 324

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aagaaatgca gatgagtgtg aaacatctgt tctcaattat gttgatctgt gtgcgcagta 60
ctggagcatt taccatttca tgttgagcct caaatgcttg ttttctgggg tccacaaaag 120
acagttttat acatttttag ttgttcataa agtttgctct gtgatagtc tggcacttaa 180
agacaaatct ttctggtagt aaaagtccag atttattact atgtcatgaa acacagtaca 240
ttcaaatcaa acggcagttt tctttctaag taaatgattt ccagtcacat aaaagggtggg 300
caagatgaga taaagacatt ttgatacagt aattgttttg gttgggtttt catgtcagtt 360
tatgtttgac taaagctctc ttcatatgca ggtttataaa tttgttaggt ctgttgtccc 420
atgattaaac atgsagtgcc tcctctctga tttaatattc tgcaggtcat tgtaacctgc 480
taggcaaagt cacaacattg cattaaagag gtgatagctt tgctaatac actgttttaa 540
aggacgtaca gttaaaggaa tattaagtgg gagaaagcct acaaggcttt tagaatatta 600
tcagtatctt catttctggg attcagatgt tatgtgataa aacacatttt ttttggtctt 660
cccagataca ctatatattt gttcaagggt aaatctataa aatgtatata ctttattttg 720
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tggtgggtgt catctgtata tcaccatgtt aatttgtaat ggaagtgcac ttcgtagtgt 840
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2325

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<212> DNA

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<220>

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ggagagcccc gagctgctga accctgagcc caggagactg agcccagagt tgaggctact 180
gccctatatg atcactctgg gcgacgccgt gcacaacttc gccgacgggc tggccgtggg 240
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gttccctctac gtagcactct gcgacatgct cccggcgatg ttgaaagtac gggacccgcg 540
gccctggctc ctcttcctgc tgcacaacgt gggcctgctg ggcggctgga ccgtcctgct 600
gctgctgtcc ctgtacgagg atgacatcac cttctgatac cctgccctag tccccacct 660
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<212> DNA

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gacgacagaa gggtagcgct gcgagaagac kacagaaggg tacggctgcg agaagackac 180
agaagggtac ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagagggt 240
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<210> 327

<211> 2454

<212> DNA

<213> Homo sapiens

<400> 327

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tcccaccctc ccgccccggc gcagccctag ctccctccac ttggctcccc tggccccgct 180
cgctcgccgg ggagctgctc tgtgcttttc tctctgattc tccagcgaca ggaccggcg 240
ccggcactga gcaccgccac catggggaag ggggttggaac gtgataagta tgagcctgca 300
gctgtttcag aacaaggtga taaaaggggc aaaaagggca aaaaagacag ggacatggat 360
gaactgaaga aagaagtttc tatggatgat cataaactta gccttgatga acttcatcgt 420
aaatatggaa cagacttgag ccggggatta acatctgctc gtgcagctga gatcctggcg 480
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<211> 505

<212> DNA

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gnaggctgna gtgggcagat cgcttgagcc caggagtgtg agatcagcct gggcaacatg 240
gtgaantcca tctctgtgaa aaatacaaaa attagccagg tgtggtggtg cgcgcctgtn 300
antcccagct actagggagg ctgaagggtg gnggnttgnt tnagcccagg aggttgaggc 360
tgcattnggc tgggattcaa accatgttac tcctgacca ngtnngncct ntttcaaann 420
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<211> 559

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<400> 329

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ttagttgcac tagccatatt tcaaatactt gatggataca tgtggctagt ggctaacata 180
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gtaataggct gatataattac acttggtgat gtaanctgga tangtttctt tcttctccaa 360
ggacagcttt ttnaatattt aacantncca ttaatttttc agtttccggg agaattttat 420
aattttaaata tgccgactta ngganaancc aattggncca accattacaa tanattttta 480
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<211> 467

<212> DNA

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ctggncagac accgntgnaa cggnnattat ttcaccctca gagagaggct gatcactatg 180
caaaaacaac tgggaggaaa cccagaagta tattgaatga gcagtgcaga ttagagttgc 240

ccatatcgat gggcancaat tgncaattat tgtgnagcaa tacacacggg gtttccangg 300
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<210> 331

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aatgtngcca ntgtctgtct gcagattggc taccacaactg ttgcatcagt accccattct 180
atcatcaacg ggtacnaacg antcctggcc ttgtctgtgg agacggatta caccttcca 240
cttgctgaan aagtcanggc ttcttggtg atccatctgc cttingtggt gctgccngt 300
tggctgctgc caccacaact gtcctgctg ctgctgcnc ccancctaag ttnaaaccca 360
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<212> DNA
<213> Homo sapiens

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<222> (49)

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<222> (485)

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<220>

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<400> 332

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tcgctatcct gacgtgtgtg aacgccccgt acaagcgagg attttactgc ggggatgact 120
ccatccggta cccctaccgt ccagatacca tcaccacgg gctcatggct ggggtcacca 180
tcacggccac cgtcatcctt gtctcggccg gggaaacctt cctgggtgtac acagaccggc 240
tctattctcg ctcgacttc aacaactacg tggctgctgt atacaagggtg ctggggactt 300
cctgtttggg gctgccgtga gccagtctct gacagacctg gccaagtaca tgattgggcg 360
tctgaagccc aattctaanc gtctgcgaac ccgattgaac cggatcaatgc tcgtnatgtg 420
cagtggagaa gtttgcaggg aacctnttga ttcacgagca gtgtttttta tcggaatntc 480
tttgenn                                     486
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<210> 333

<211> 268

<212> DNA

<213> Homo sapiens

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ttcaactana agtatcanaa tatagcnttc cagaaaaccc cgaancanag tcactgacta 120
catcaaagtc tactacacct tgagaaaaca aatgaacgan aatctatattt cctcattcat 180
taccccaaca ataataggac tccctatcgt aattattntc actatgtttc caagcattga 240
tatncccatc acctaccggn ctnttcaa 268

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<223> n equals a,t,g, or c

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<220>
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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

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<220>

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<222> (447)

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<220>

<221> misc feature

<222> (463)

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<220>

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<222> (489)

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<220>

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<222> (496)

<223> n equals a,t,g, or c

<400> 334

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taactggcta gaagtgccca acgtggaatg tttctttttt aaaggcggct cttgaagcga 120
cccgaagcg gaagtggaag aaagttctag tggttgaga ttaagcctga tcaagatgac 180
aacctcccaa aagcaccgag acttcgtggc agancccatg ggggagaacc agtggggaac 240
ctggctggga ttggtgaant cctgggcaag aaactggaag aaagggtttt gacaaggcta 300
tnttgtcttg gccatttctg gtgctaaaaa anataaaaaac tctcccggaa tggtgaaaan 360
ctttttgggc caccacaacat cccgaatgct cgatgctcca aaatgtgcan cctcttttat 420
gtctttggaa tctctncccc ccccccatt tgaccaattg ganccccctt cctcaagaaa 480
atgttggtnc ccccanttcc ggttttgatt tccccac 517
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<210> 335

<211> 297

<212> DNA

<213> Homo sapiens

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<222> (155)

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<220>

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<222> (156)

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<220>

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<220>

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<222> (244)

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<220>
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<222> (286)
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<400> 335
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ggccgctcta gaactagtgg ggggcccggt acccaattcg ccctatagtg agtcgtatta 120
caattcactg gccgtcgttt tacaacgtcg tgacnnggaa aacntnnaat ncttccggct 180
cgtatgttgt gtggaattgt nageggataa caattcacac aggnancagc tataaccatg 240
attnnnccaa gntcgaaatt aacntnact aaaggggaca aaagtngggg ctccacg 297

<210> 336
<211> 386
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (128)
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<220>
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<222> (187)

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<222> (204)

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<220>

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<222> (244)

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<222> (251)

<223> n equals a,t,g, or c

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<222> (261)

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<220>

<221> misc feature

<222> (265)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

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<220>

<221> misc feature

<222> (275)

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<220>
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<220>
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<222> (365)

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<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<400> 336

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caaaatgctg ctgggtgttt atgcctactt tatagagcat aagcagcgca acacccttat 120
ctggttgncg acggatggtg atgcccngga actttatgaa aaaccacgt tgagcccgac 180
tattngngat attccgtcgn tgcntggggc tggccccgtg gtatggcaaa aaagcaccgg 240
gttnaacaag ntcaaccatg naagngtttc anctnaatgg ggggggncccc gtaacccaat 300
tngncctata agtnnatggg antttaanaa ttcaatnggc cctngntttt aaatggtgng 360
tgntnggcct ttttttttn gtttgt 386
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<211> 506

<212> DNA

<213> Homo sapiens

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<220>

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<222> (307)

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<221> misc feature

<222> (340)

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<222> (412)
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<220>
<221> misc feature
<222> (414)
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<220>
<221> misc feature
<222> (437)
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<221> misc feature
<222> (469)
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<222> (470)
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<220>
<221> misc feature
<222> (471)
<223> n equals a,t,g, or c

<220>
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<222> (472)
<223> n equals a,t,g, or c

<220>
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<222> (481)

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<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<400> 337

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caccactatg taccctggca ttgccgaccg aatgcagaag gagatcacgg ccctagcacc 120
cagcaccatg aagatcaaga tcattgcccc tccggaggcg caaatactct gtctggatcg 180
gtggctccat cctggcctct ctgtccacct tccagcagat gtggatcagc aaacagggaa 240
tacggtgaag ccgggccttc cattgtccac cgcaaagtct ttcttaaac acttttcctg 300
gttcctnttc tgtcttttag gcacacaact gtggaatgtn cctgtgggaa tttatggccn 360
tttcagtttc tttttccaaa tcattcctag ggccaaagtt ttgnattggt tnanccatgg 420
ggttttttta aataaantnt ggaaataggg ttaattggtt aaaaaaaann nnaaaaaaaa 480
ntntgggggg ggggggcccg ntaccc 506
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<210> 338

<211> 623

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (441)

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<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<220>

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<222> (513)

<223> n equals a,t,g, or c

<220>

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<222> (537)

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<222> (565)

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<220>

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<222> (597)

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<220>

<221> misc feature

<222> (599)

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<220>

<221> misc feature

<222> (612)

<223> n equals a,t,g, or c

<400> 338

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aagaaggagc tgtctgacat cgctcaccgc atcgtggcac ctggcaaggg catcctggct 120
gcagatgagt ccaactgggag cattgccaag cggctgcagt ccattggcac cgagaacacc 180
gaggagaacc ggcgcttcta ccgccagctg ctgctgacag ctgacgaccg cgtgaacccc 240
tgcatggggg gtgtcatcct cttccatgag acactctacc agaaggcggg tgatgggcgt 300
cccttcccc aagttatcaa atccaagggc ggtgttgtgg gcatcaaggt agacaagggc 360
gtgggtcccc tggcagggac aaatggcgag actaccaccc aagggttgga tgggctgtct 420
gagcgctgtg ccagtagcaa ngaaggacgg agctgacttc ggccaagtgg cgttgtgtgc 480
ttaagaatgg gggaacacac cccctcannc ctnggcacatc tggaaaatgc caattgntct 540
ggccccgtat gccagtatct ggcanacagaa tgcatggggc cattcgggga gtctgananc 600
tcctgatggg ancatgactt gaa 623
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<210> 339

<211> 344

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (157)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (171)
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<220>
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<222> (210)
<223> n equals a,t,g, or c

<220>
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<222> (298)
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<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (330)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<400> 339
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ttttttatat ttcaactaaa agtatcanaa tatagctttc cagaaaaccc cgaaccaaag 120
tcactgacta catcaaagtc tactacacct tggaganaac aaatgaacga naatctatgt 180
tcctcattca ttaccccaac aataataggn ctccctatcg taattattat cactatgttt 240
ccaagcatta tattcccatc acctaccga ctaatcaata atcgactcat ctccattnca 300
acaatggatt agtgcantga acatgcaaan gcaaggatta tcnn 344

<210> 340
<211> 345
<212> DNA
<213> Homo sapiens

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<220>
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<222> (13)
<223> n equals a,t,g, or c

<220>
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<222> (31)
<223> n equals a,t,g, or c

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<220>
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<220>
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<220>
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<222> (296)
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<220>
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<222> (313)
<223> n equals a,t,g, or c

<220>
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<222> (339)
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<220>
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<222> (343)
<223> n equals a,t,g, or c

<220>
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<400> 340
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ggaattcccg ggctcgaccca cgcgtccngn aggaggggac agctgcgggc gcggggaggg 120
ggcgccgngc cgcgnggngc catggnggac agnagagccg ggagtccgag annccgggcc 180
gcagcccag atgtcgccgc catggcttcg ccgcagctct gccgcgcgct ggtgtcggcg 240
caatgggtgg cggaagcgct gcgggccccg cgcgctgggg cagcctctgc agctgntagg 300
acgcctcctg gtnacctggc cggaagctgg ggggcgcgna cgncn 345

<210> 341
<211> 170
<212> DNA
<213> Homo sapiens

<220>
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<222> (20)
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<220>
<221> misc feature
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<223> n equals a,t,g, or c

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<222> (43)

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<222> (160)

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<221> misc feature

<222> (163)

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<222> (164)

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<222> (170)

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<400> 341

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tccaagctta cttggacatg catgcnacgt catagctctt ctatagtgtc acctaaattc 120
aattcactgg ccgtcgtttt acaacgtcgt gactgggaan atnntaaaan 170
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<210> 342

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (238)

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<220>

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<222> (273)

<223> n equals a,t,g, or c

<220>
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<222> (328)
<223> n equals a,t,g, or c

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<220>
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<222> (351)
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<220>
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<220>
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<222> (384)
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agagaattat gcagtgtctc cataaccatg agtgataaca ctgcggccaa cttacttctg 120
acaacgatcg gaggaccgaa ggagctaacc gcttttttgc acaacatggg ggatcatgta 180
actcgccttg atcgttggga accggagctg aatgaagcca taccaaacga cgagcgtnac 240
accacgatgc ctgtagcaat ggcaacaacg ttngcaaact attaactggc ggactactta 300
ctctagcttc cgggaacaa tttatagnct tgggtgnggc gggtaaagtt ncaaggccca 360
tttttnggtt tggccttcg gttngtt 387

<210> 343
<211> 186
<212> DNA
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<220>
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<220>
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<222> (152)
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<220>
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<222> (183)
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<400> 343
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tatntcggac ncatctggtg acttccgcaa gctgatggtt gccctggcna aagggttaaaa 120
aacagaagaa tgggtccgtcc ttgaatatga anngaatan ccacatgccg ggatttcctt 180
ganccc 186

<210> 344
<211> 611
<212> DNA
<213> Homo sapiens

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<222> (11)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<400> 344

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tgcaaggnga nactaccctc actaaaggga acaaaagctg gagctccacc gcggtgcggc 60
cgctctagaa ctagtggatc ccccgggctg caggaattcg gcacgagctg cgttgggctc 120
cggggaagccg ttcgggctgg ggctgtcggc cgcggggcgg aggcactcgc gcgggggatg 180
gccactgcg tgaccttggg tcagctgtcc atttctgtg accatctcat tgacaaggac 240
atcggtcca agtctgacct actctgcgtc cttttacagg atgtnggagg gggcagctgg 300
gctgagcttg gccggactga acgggtgcgg aactgctcaa gccctgagtt ctccaagact 360
ctacagcttg agtaccgctt tgagacagtc cagaagctac gctttggaat ctatgacata 420
gacaacaaga cgccagagct gagggatgat gacttcctag ggggtgctga gtgttcctta 480
ggacagattg tgtccagcca ggtactgact ctccccttga tgctgaagct ggaaaacctg 540
ctgggcgggg gaccatcacg gtctcagctc aggaattaaa ggacaatcgt gtagtaacca 600
tgagagtaga g 611
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<210> 345

<211> 344

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (329)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (342)

<223> n equals a,t,g, or c

<400> 345

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tttccttcta cagtattcct gaatttgacg aatggaaaaa acatatagaa aaccagaaag 60
cctggaaaaat aaagtactat aaaggattgg gtactagtag agctaaagaa gcaaagggaat 120
atattgctga tatggaaagg catcgcatct tgtttagata tgctggtcct gaagatgatg 180
```

288

```

ctgccattac cttggcattt agtaagaaga agattgatga cagaaaagaa tggttaacaa 240
attttatgga agaccggaga cagcgtagct acatggctta ccagaggant gattcnctct 300
caactcagac atgaaagatc tataccacnc ntgttgatgg cntt 344

```

<210> 346

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (392)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (452)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<400> 346

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ggaaaagccc aaggaaaaag caaagaatag caaaaaaaag ggggccaaga aggaagtggg 60
tgggattggg cttctttttt cttcagttag ttttttcccc aacaggttct gatggtcctt 120
tggctaccag caaaccagtc cctgcagaaa agtcaggtct tccagtgggt cctgagaacg 180
gagtagaact ttccaaagag gagctgatcc gcaggaagcg cgaggagttc attcagaagc 240
atgggagggg tatggagaag tccaacaagt ccacgaagtc agatgctcca aaggagaagg 300
gcaaaaaagc accccgggtg tgggaactgg gtggctgtgc taacaaagaa atgttggatt 360
acagtacttc caccaccaat ggaaccctg angcttgctt tgtctgagga cattaacctt 420
gattccaagg gactgggtct ggggggcact tnnggatctg gactgcacac tntgatgacn 480
aagggttgtg taaantttcc aaacta 506

```

<210> 347

<211> 444
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<400> 347
cggaagggag accatgttcc gagcggcggc tccggggcag ctccggcggg cggcctcatt 60
gctacgattt cagagtaccc tggtaatagc tgagcatgca aatgattccc tagcacccat 120
tactttaaat accattactg cagccacacg ccttggaggt gaagtgtcct gcttagtagc 180
tggaacccaaa tgtgacaagg tggcacaaga tctctgtaaa gtagcaggca tagcaaaagt 240
tctggtggct cagcatgatg tgtacaaagg cctacttcca gaggaactna caccattgat 300
tttggcaact cagaagcagt tcaattacac acacatctgt gctggagcat ctgccttcgg 360
aaagaacctt ttgcccagag tagcagccaa acttgagggt gccccgattt ctgacatcat 420
tgcaatcaag tcacctgaca catt 444

<210> 348
<211> 358
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 348

ggcagagaag cagaagcgnc tcagttagag tccagcaaaa ggtttgccaa anagtttatg 60
gacagacatg gaatcccaac cgcacaatgg gaaggctttc accaaacctg aaaggaagcc 120
tgcagcttca ttttgagtgc agacttccct gctttgggtg tgaaaggcca gtggtcttgc 180
agctggnaaa aggggtgatt gttgcaaaga gcaaagaaga ggcctgcaag ctgtacaaga 240
gatcatgcag gtaggctggg tcttctggaa aaatttactn ttgtattcat actgnatgaa 300
ntaccgtttt aagtttnaaa aatgttcctc acattaaggg aaattctntt ttgcaacc 358

<210> 349

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<400> 349
ggcgcttttgc tctgtccacc aagattcctg acaccaaagg ctgcttgacg tgcgtgtgg 60
tgcggaaccc ctacacgggt gccaccttcc tgctggccgc cctgcccacc agcctgctcc 120
tgctgcagtg gtatgagccg ctgcagaagt ttctgctgct gaagaacttc tccagccctc 180
tgcccanccc agctgggatg ctgganccgc tgggtgctgga tgggaaggag ctgccgcagn 240
gttttttttg ggccgaaggg cctaaagggc ccggttgccg gttcctgttc caanncctgc 300
ncctggggagg ttggcnttaa g 321

<210> 350
<211> 742
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (618)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (653)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (658)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (683)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (689)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (707)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<400> 350

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ggtcacgctg acccagtgct cggaaaagct ggtgcagctc atcctgcacg aatacaagat 60
cttcaatgca gaagtgcttt tccgagaaga ctgctccccg gacgagttca tcgatgtgat 120
cgtgggcaac cgggtgtaca tgccctgcct gtatgtttat aacaaaatcg accagatctc 180
catggaagag gtggaccgcc tggcccgaac acccaacagt gtggtcatca gctgcggcat 240
gaagctgaac ctggactatc tgctggagat gctctgggag tacttggccc tgacctgcat 300
ctacaccaag aagagaggac agaggccaga cttcacagac gccatcattc tccgaaaagg 360
ggcctcagtg gagcacgtgg gcaccagcac caagtacagt ccgcagcggg tgggcctgac 420
ccacaccatg gagcatgagg acgtcatcca gatcgtgaag aagtaacggc gcctgccggg 480
ccttcgccc acctgctcgt ctcccttggg aggtggtccc actgggacac acaaacaccc 540
aaacagaaaa atacaaatac acgtaccca agaaggggtc cctcaagtct ctgctattta 600
cagaagtttc ttcagtangc agaccaaaaa tgtgttgggc aaaagggtc ggntggangc 660
attttccata agactgagcc ctnttcatng ggggttttga gnttgantgc ttancctgna 720
tntgtgcctc caanccctg ac 742
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<210> 351

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<400> 351

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aatcaggcgg gactgacggc agatcgtatg ctggtcctgt ccagagccgg gcaggcggca 60
gggctgacgt ttaaccagac cagcgagtca ctcagcgcac tggttaaggc gggggtaagc 120
ggtgaggctc agattgcgtc catcagccag agtggtggcg gtttctnctc tgcacccggc 180
gtggagggtg acaaggtcgt tgaagccttc gagggggggc cgtaccatt tgcctatagt 240
aagcgtatta naataattgc cgtgttttaa an 272
```

<210> 352

<211> 256

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (248)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 352

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gcagacgtcc agagcagagt cagccagcat gaccgagcgc cgcgtcccct tctcgtcct 60
gcggggcccc agctgggacc cttccgcga ctggtaccgc catagccgcc tcttcgacca 120
```

ggccttcggg ctgccccggc tgccggagga gtggtcgcag tggtaggcn gcagcagctg 180
gccaggtac gtgcgcccc tgccccccgc cgcacgcaga gccccgcagt ggccgngccc 240
gctacagncg nncgct 256

<210> 353

<211> 592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (277)

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<220>

<221> misc feature

<222> (480)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 353

ggttcccttc cacgctgtgg aagcattgta ctttnggtct tcatgataaa tctngctgct 60

295

```
gctcactcgt tgggtccgtg ccacctttaa aanctgtaac actcaccgcg aaggctctgca 120
acttcactcc tggggccagc aagaccacga gtgcaccgag aggaatgaac aactctggac 180
acaccatctt taagaaccgt aatactcacc gcaagggtct gcaacttcat tcttgaagtc 240
agtgaggcca agaaccatc aattccgtac acatttnggt gactttgaag agactgtcac 300
ctatcaccaa gtggtgagac tattgccaaag cagtgaact attgccaaagt ggtgagacca 360
tcaccaagcg gtgagactat cacctatcgc caagtgggcc taagtgtgaa cgtgaagtcc 420
ccagccctgc tgctgagcca gttgctgccc tacatggaga acaagaaggg tgctgtcatn 480
ctggnctctt ccattgcagc ttataatcca gtagtggcgc tnggtgtcta caatgtcagc 540
aaganagagc tgctggggtc tcactagaac actggcattg ggcttgggcc cc 592
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<210> 354

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (223)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<400> 354

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cacnaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgacg gccgctctag 60
aactagtgga tccccggggc tgcaggaatt cggcacgagc cgtctcaggc tcgtagtctg 120
ccttcaacat gccggaacca gcgaagtccg ctcccgcgcc caagaagggc tcgaagaaag 180
ccgtgactaa ggcgcagaag aaggacggca agaagcgcaa ggnanccgca aggagagcta 240
ctccgtatac gtgtacaagg tgctgaagca ggtccacccc gacaccggca tctcctctaa 300
ggccatggga atcatgaact ccttcgtcaa cgacatcttc gaacgcatcg cgggtgaggc 360
ttcccgcctg gcgcattaca acaagcgctc gaccatcacc tccagggaga tccagacggc 420
cgtgcgcctg ctgctgcccg gggagttggc caagcacgcc gtgtccgagg gcaccaaggc 480
cgtcaccaag tacaccagcg ctaagtaaac ttgccaagga gggactttct ctggaattt 539
```

<210> 355

<211> 435

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (299)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (396)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (419)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (421)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (422)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (424)
 <223> n equals a,t,g, or c

<400> 355
 gcttcgctca cctgcccaag agtacctttg tggttgatga atttaagcgc aagtactcca 60
 atgaggacac actctctgtg gcactgccat atttctggga gcactttgat aaggacggct 120
 ggtccctgtg gtactcagag tatcgcttcc ctgaagaact cactcagacc ttcagagct 180
 gcaatctcat cactggaatg ttccagcgac tggacaagct gaggaagaat gccttcgcca 240
 gtgtcatcct ttttggaacc aacaatagca gctccatttc tggagtctgg gtcttncng 300
 gccaggagct tgcctttccg ctgagtccag attggcaagt ggactacgaa gtcatacaca 360
 tggcggaaac tggatctggc aagcgaggag acccanacgc tggttcgaga gtacttttnc 420
 nngngagggg gcctt 435

<210> 356
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (21)
 <223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
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<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (386)
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<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (393)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

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<220>

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<222> (419)

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<220>

<221> misc feature

<222> (420)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (437)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (445)
<223> n equals a,t,g, or c

<220>
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<222> (449)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (458)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

<220>
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<222> (461)
<223> n equals a,t,g, or c

<220>
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<222> (476)
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<220>
<221> misc feature
<222> (478)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (485)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (497)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (499)
<223> n equals a,t,g, or c

<400> 356
aattcggcac gagagggagt ntgagcaagg ggtgtacacc tgcacagcac agggcatttg 60
gaagaatgaa cagaagggag agaagattcc tcggtgcttg ccagtttgtg ggaagcccgt 120
gaaccccgtg gaacagaggc agcgcacatcat cggagggcaa aaagccangg ggatagtggg 180
ggcggttttg cagtaaggga cccgaacact gatcgctggg tggccacggg catcggtgnc 240
ctngggcatc gngtgcagca gggccttatg gcttnttaca ccaaagtnc cnaacttncg 300
tggccttgga tcaagnnaga cctngganca ggaggactnc cgccccanca ttcactaggt 360
tccnaatcca gngagcagtt tcgcanaaan canccanaca cancttcccc ctntttngnn 420
accennncagn gtctctnttn anatinctnc tngcacnna ncccacaacc ccccnncnc 480
cccncccc ccccnncnc cc 502

<210> 357
<211> 440
<212> DNA
<213> Homo sapiens

<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (300)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (378)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
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<222> (402)
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<222> (418)
<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<400> 357

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ctgttcaggc cggagccaca gaccgccgtt gaatgggcgg atgctaatta ctatctcccg 120
aaagaatccg cataccagga agggcgctgg gaaacactgc cctttcagcg ggccatcatg 180
aatgcgaatg ggcagcgact acatccgtga gtggaatgtg gtgaagtgtg cccgtntcgg 240
ttattccaaa atgctgctgg gngtttatgc ctactttata gggcataaagc agnggaacan 300
ccttatttgg ttccncaggt atggtggatg cccgagaant ttttgaaaaa cccacgttgn 360
gncgattatt tcgggganatt ttccgngnt gttgggggtt gnccccntgg gttttggnaa 420
aaaganccgg gtaaaagggtt                                     440
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<210> 358

<211> 234

<212> DNA

<213> Homo sapiens

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<222> (46)

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<222> (92)

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<222> (162)

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<222> (166)

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<222> (175)

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<222> (208)

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<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<400> 358

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tgtgatgaag gagatgggag gccatcacat tntagtcctc tttttgctca aggggggcta 120
taaatttttt gctgacctgc tggattacat caaaggactg antagnaaat agtgnataga 180
tccattcctc atgaactgtg gatTTTTngc agatctgaag agctattgtn atga      234
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<210> 359

<211> 668

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (19)

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<220>

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<222> (20)

<223> n equals a,t,g, or c

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<222> (295)

<223> n equals a,t,g, or c

<220>

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<222> (512)

<223> n equals a,t,g, or c

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<222> (552)

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<220>

<221> misc feature

305

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<223> n equals a,t,g, or c

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<222> (659)
<223> n equals a,t,g, or c

<220>
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<222> (667)
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<400> 359
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aagctggtac gcctgcaggt accgggtccgg aattcccggg tcgacccacg cgtccgggggt 120
gtttgaggta cataagaaaa atgtaagggg tgaattcact tattatgaaa tacaagataa 180
tacaggggaag atggaagtgg tgggtgcatgg acgactgacc acaatcaact gtgaggaagg 240
agataaaactg aaactcacct gctttgaatt ggcaccgaaa agtgggaata ccgngagtt 300
gagatctgta attcatagtc acatcaaggt catcaagacc aggaaaaaca agaaagacat 360
actcaatcct gattcaagta tggaaacttc accagacttt ttcttctaaa atctggatgt 420
cattgacgat aatgttttatg gagataaggt ctaagtgcct aaaaaaatgt acatatacct 480
ggttgaaata caacactata catcacacc ancatatata cttagcttggt aatcctatgg 540
aaatggggta tntggagnnc ttttttaatt tttcatagnt tttttttnat aanaatggca 600
tattttggat ctacaacttc tatgatttga aaaaatacct taacccttat cttttttgng 660
aaaaaana 668

<210> 360
<211> 401
<212> DNA
<213> Homo sapiens

<400> 360

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caccattacc agcggcggca atcctccggc cttttccctg acaccggacg gaaagctgac 60
cgctaaaaat gcggatatca gtggcagtgt gaatgcgaac tccgggacgc tcagtaatgt 120
gacgatagct gaaaactgta cgataaacgg tacgctgagg gcggaaaaaa tcgtcgggga 180
cattgtaaaag gcggcgagcg cggcttttcc gcgccagggtg gaaagcagtg tggactggcc 240
gtcagggtacc cgtactgtca ccgtgaccga tgaccatcct tttgatcgcc agatagtggg 300
gcttccgctg acgtttcgcg gaagtaagcg tactgtcagc ggcaggacaa cgtattcgat 360
gtgttatctg aaagtactga tgaacgggtgc ggtgatttat g 401
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<210> 361

<211> 273

<212> DNA

<213> Homo sapiens

<220>

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<222> (156)

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<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 361

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tgagccgtaa ttatcatctg cgcgggcgta ttctgcagggt gccgtcgaac tataaccgcg 120
agacgcggca atacagcggg atctgggacg gaacgnntaa accggcatac agcaacaaca 180
tggcctggng tctgtgggat atgctgacct atccgcgcta cggcatgggg aaacgncttg 240
gtgcggcgga tgtggataaa tgggcgctgt atg 273
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<210> 362

<211> 248

<212> DNA

<213> Homo sapiens

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<222> (5)

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<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (161)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<400> 362
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cgaatcccat ctngcaagg agctgctgga aaaagtcgag ctgacggagg ataacgccag 120
cagactggag gagttttcga aagantggaa ggatgccagt nataagtgga atgccatgtg 180
ggctntcaaa attnagcaga ccaaagacgn caaacgantt ttattctgct atttagtagt 240

aagatcag

248

<210> 363

<211> 149

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (131)

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<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<400> 363

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atctggaggc gacggggctg tatcagggtgc cgttgctcagc ggcacagccg ggcgatgtgc 120

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<210> 364

<211> 352

<212> DNA

<213> Homo sapiens

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<222> (93)

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<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (325)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<400> 364
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tgctctggtt ctcatgacgg cagatgcagc gangaggctc aatgttacac cactggcaag 120
aatagtagca tttgctgacg ctgctgtaga acctattgat tttccaattg ctccctgtata 180
tgctgcatct atggtnctta aagatgtggg attgaaaaaa gaagatattg caatgtggga 240
agtaaatgga agcctttagt ctggttgtag tagcaaacaat taaaaatgtt ggagattgga 300
tccccaaaaa gtgaatatnc anggnaggag ctgtttcncn ggggacatcc ca 352

<210> 365
<211> 272
<212> DNA
<213> Homo sapiens

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<220>
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<222> (42)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

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<221> misc feature
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<220>
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<222> (261)

<223> n equals a,t,g, or c

<400> 365

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ggcttggtgcc gctgctggan tgacagcctt ncgaggcttt gctgtctcgg cacggnaggt 120
ctggcaaacc anggacagac caggnacatg ggaccaaagc cggaacctcc tgctcaacgg 180
gaagtcctan cccaccaaag tgcgcctgat ctggggggggc tccctncccc cagtcaagcg 240
gncggcggat gaactggatn nacgccccgg at 272

<210> 366

<211> 254

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (208)

<223> n equals a,t,g, or c

<220>

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<222> (209)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (244)

<223> n equals a,t,g, or c

<400> 366

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ggctctacta ggactcacta tanggaaagc tggtagcct gcaggtaccg gtccggaatt 60
cccggtcga cccacgcgc cgttctctg cctagaaggg ataatttat cactcttcgt 120
tataataaca atcaccatct taattaacca cttacatta gccagcataa cccctatcat 180
ccttcttgta tntgcagcct gtgaagcnn actggggctt atccctttta gttatnatct 240
caantacata cgga 254
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<210> 367

<211> 185

<212> DNA

<213> Homo sapiens

<400> 367

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tgcagagaac gttgaatgcc tggaattaat cacattcccc tggttcagag ctgtacgtgg 120
aaaccatgag caaatgatga ttgatggctt atcagagcgt ggaaacgtta atcactggct 180
gctta 185
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<210> 368

<211> 458

<212> DNA

<213> Homo sapiens

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<220>

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<222> (6)

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<220>

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<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

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<220>
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<220>
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<220>

314

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<220>
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<400> 368
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ccggagttag ccttgaacgc ctggacctgg acctcacagc tgacagccag ccacccgtct 120
tcaaggtctt cccaggcagt accactgagg actacaacct tattgttatn gaacgtggcg 180
ctgccgctgc acnaccggcc agccagggac tgcgcctgca ggaacccctg gngccccacc 240
cctggntggn atggccattg tcaaggagga ggagacggag gctgccattg gagccccctc 300
tactgccact gagggncctg agaccaaacc tgtgcttatn gctcttgagg agggtcctgg 360
tgctgagggg tcccggctgg actcactagt ggcanaacna ctcnnggctgg aagtngtagc 420
tctgagggac tcngccccag tggtggcccg gacctgat 458

<210> 369
<211> 288
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

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<222> (71)
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<220>
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<222> (103)

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<222> (239)

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<400> 369

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ccccgcctgc ngccctgttt gcaactcgcc tgtagtgcct gentagggcc cgcngccccg 120
ccgcccgcga cagctcgggg gacggcgggg cggcgggcga cggcaccgtg gtggactgtc 180
ccgtgtgcaa gcaacagtgc ttctccaaag acatcgtgga gaatnatctc atgcgtgana 240
gtggcagcaa ggctgccacc gacgcccgag atgcgaacca gtgctgca 288
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<210> 370

<211> 292

<212> DNA

<213> Homo sapiens

<220>

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<222> (47)

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<222> (53)

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<220>

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<222> (60)

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<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

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<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
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<222> (263)
<223> n equals a,t,g, or c

<400> 370
ccatcttttgc attgttcctc atccgcctcc ttgctcgccg cagccgnctc cgnccgcgcgn 60
ntcctccgcc gccgcggact ccggcagctt tatcgccaga ntccctgaac tctcgctttc 120
tttttaatcc cctgcatcgg ntcaccggcg tgccccacca tgtcagacgc agccgtagac 180
accagctccg aaatcaccac caaggactta aaggagaaga aggaagtttt ggaaagaggc 240
agaaaaatgga agagacggcc ctnccttaacg gggaatgcta atttagggaa at 292

<210> 371
<211> 477
<212> DNA
<213> Homo sapiens

<220>
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<222> (276)
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<220>
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<222> (313)
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<220>
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<222> (427)
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<220>
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<222> (434)
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<220>
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<222> (447)
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<220>
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<222> (448)
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<220>
<221> misc feature
<222> (451)
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<400> 371
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tggttccaag cataaaagaa cggacagatc aattttatgt tgtttacgaa aaggagaatc 120
tggccagtca tggcaagggt taacaaaaga aagggcaaag cttaattggc ttagtgctga 180
cttcaataat tgggaaagac tgggaagatg attcaaatga agacatgtct aattttgaat 240
cgtttctctg aggattcaca agacagtgat gatggnaaaa atgccagatc tgggagtaag 300
ggaatattgt ccntcacctg ggtttttgag gaaaggaaaa tnaactttct ctggcaaggt 360
ttccataat ttgngaggaa ttccccgagt ttgttagcnc cttaaagggn gttatgctcg 420
tatttgnccc actntaacc ctttttnnca nccggtttgt ttttttaaaa gggcttc 477

<210> 372
<211> 443
<212> DNA
<213> Homo sapiens

<220>

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<220>
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<222> (293)
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<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (340)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (364)
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<220>
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<220>
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<220>
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320

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<400> 372

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agaaganatc ctnnaccctt gtaggaatgt ttttgaaact aaatttnatg aacgtnaaat 120
ttncacgtgg ttattatgaa cttccttgtc gaagttgaaa ggtgaacaac nctnatattg 180
caaataccgt agagcttcag agtgcaagat tctccactgn angttgggca ttcacaaatg 240
ttggatcttt cccaccgtgg gatgaagggt tcagaggcat tgcacccaaa atnaccggg 300
tgaacatacc cagnccaaag cccaggggna cattnatcgn ggacaggccc nccagaattt 360
ggcntgttct ttncacgttg gtaggtgtgg aacttggggg tgaattnatt ncttaaccga 420
attnnccgn ttccttaacc gag 443
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<210> 373

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

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<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<400> 373

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gagacttggg gatggaaccg cacagagccg cgggcccttt gcagctgcga ttttcgccct 120
acgttttcaa cggaggtact atactggcaa ttgctggaga agattttgca attgttgctt 180
ctgatactcg attgagtga gggttttcaa ttcatacgcg ggatagcccc aaatnttaca 240
aattaacaga caaaacagtc attggatgca gcggttttca tggagactgt cttacgctga 300
caaagattat tgaagcaaga ctaaagatgt ataagcattc caataataag gccatgacta 360
cgggggcaat tgctgcaatg ctgtctacaa tcctgtattc aaggcgcttc tttccatact 420
atgtttacaa catcatcggg ggacttgatg aagaaggaaa gggg 464
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<210> 374

<211> 369

<212> DNA

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<220>

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<220>
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<400> 374
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agagccgcgg gccctttgca gctgcgattt tcgccctacg ttttcaacgg aggtactata 120
ctggcaattg ctggagaaga ttttgcaatt gttgcttctg atactcgatt gagtgaaggg 180
ttttcaattc atacgcggga tagcccaaaa tggtgncnna ntaacagaca aaacagtcac 240
tggtatgcagc ggttttcatg gagactgtct tacgctgaca aagattattg aagcaagact 300
aaagatgtat aagcattcca ataataaggc cntgactacg gggggcaatg ctggcangcn 360
gtinctacan 369

<210> 375

322

<211> 313
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (249)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

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<222> (268)
<223> n equals a,t,g, or c

<220>
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<222> (293)
<223> n equals a,t,g, or c

<220>
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<222> (308)
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<400> 375
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gtacacaacc gcccaactgc tggcggcaaa tgagcagaaa ttttaagttg atccgctgtt 120
tctgcgcttc tttttccgtg agagctatcc cttcaccacg gaggaaaagtc tatctctcac 180
aaattccggg actggtaaac atggcgctgt acgtttcggc gattgtttcc ggtgaagggt 240
atcccgttnc cctggcggn tccacctntg aatttaaggc cgggataatg tcnaagcccg 300
aagcatgnaa gtg 313

<210> 376
<211> 375
<212> DNA
<213> Homo sapiens

<400> 376
cgggttccgg tgaccacgaa ggcggcaaa ggcgacggaat ggaggagggtg cctcacgact 60
gtccaggggc cgacagcgcc caggcgggca gaggggcttc atgtcaggga tgccccaacc 120
agcggctgtg cgcttctgga gcggggggcca ctccggacac ggctatagag gaaatcaaag 180

agaaaatgaa gactgtaaaa cacaaaatct tggattgtc tgggaaaggc ggtggtggga 240
aaagcacatt cagcgccac cttgcccatg gcctagcaga ggatgaaaac acacagattg 300
ctcttctaga catcgatata tgtgggccat cgattcccaa gataatggga ttggaaggag 360
agcaggttca ccaga 375

<210> 377

<211> 434

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (17)

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<222> (22)

<223> n equals a,t,g, or c

<220>

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<222> (33)

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<222> (47)

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<223> n equals a,t,g, or c

<220>
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<222> (98)
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<220>
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<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
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<220>
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<222> (118)
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<220>
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<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
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<222> (161)
<223> n equals a,t,g, or c

<220>
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<222> (163)
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<220>
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<222> (193)
<223> n equals a,t,g, or c

<220>
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<222> (212)
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<222> (214)
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<220>
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<220>
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<220>
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<222> (264)
<223> n equals a,t,g, or c

<220>
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<222> (265)

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<220>

<221> misc feature

<222> (279)

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<220>

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<222> (301)

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<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (409)

<223> n equals a,t,g, or c

<400> 377

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gacngagana gtncagaagc tgtgcccagg ggggcagntc ccattcctgc tntatngnac 120
tgaagtgcac acagacacca acaagnttgc ngaatttctg nangcagtgc tgtgccctcc 180
caggtacccc aanctggcag ctctgaaccc tnantccaac acagctgngc tgganatatt 240
tgncaaattn tctgcctaca tnnnnanttc aaaccacagna ctcaatgaca atctggagaa 300
nggactcctg aaagccctgn acgttttagn caattantta acatcccccc nctcagaaga 360
agtggatgan accagtgctg nagtgaaggt gtctctcaga agaagtttnt ggatagcacg 420
agctcacctt gggg                                     434
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<210> 378

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

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<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

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<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (443)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
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<220>
<221> misc feature
<222> (492)
<223> n equals a,t,g, or c

<220>
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<222> (493)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<400> 378
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tatgcgactt accgcagcaa aaataaaggg aaagataagc gctcaataaa cctgtctgtt 120
ttccttaatt ctntgctggc tgataatcat cacctgcagg ttggctccaa ttatttgtat 180
attcataaaa tcgatggaaa aacttttctc ttaccacaaa caaatgacaa gagtctgggt 240
cagaagataa atcgctctaa agcttcagtt gaagatatta agaacagcct cgtngatgac 300
ggaatcattg ggattcccat cttttttgtt tgttgaaggc gacaccattg gtttttgcca 360
gaactgnttt tcgggncggc cacatncgnt tttgacaggt ttttttaatc ggggaaggga 420
ntgtccttaa ggcgtggggn gcngttcagt tggggccctg ttgggggggac cnccaaggng 480
gtggttatgg cnnggntttc atnggc 506

329

<210> 379
<211> 550
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<400> 379
gacganacna accctcacta aagggaaaca aagctggagc tccaccgcgg tgcggccgct 60
ctagaactag tggatcccc gggctgcagg aattcggcac gaggccatcc agactgagga 120
agacccgga acttaggggc cacgtgagcc acggccacgg ccgcataggc aagcaccgga 180
agcaccgccg cgccgcgggt aatgctggtg gtctgcatca ccaccggatc aacttcgaca 240
aataccaccc aggctacttt gggaaagtgt gtatgaagca ttaccactta aagaggaacc 300
agagcttctg cccaactgtc aaccttgaca aattgtggac tttggtcagt gaacagacac 360
gggtgaatgc tgctaaaaac aagactgggg ctgctcccat cattgatgtg gtgcgatcgg 420
gctactataa agttctggga aagggaaagc tcccaaagca gcctgtcatc gtgaaggcca 480
aattcttcag cagaagagct gaggagaaga ttaagagtgt tgggggggcc tgtgtcctgg 540
tggcttgaag 550

<210> 380
<211> 573
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

330

<400> 380

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aagncnagan agccaaccct cactaaaggg aacaaaagct ggagctccac cgcggtgcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagcg caaagaaggg 120
tggcgagaag aaaaagggcc gttctgccat caacgaaggc taaccgaga atacaccatc 180
aacattcaca agcgcattcca tggagtgggc ttcaagaagc gtgcacctcg ggcactcaaa 240
gagattcggg aatttgccat gaaggagatg ggaactccag atgtgcgcat tgacaccagg 300
ctcaacaaag ctgtctgggc caaaggaata aggaatgtgc cataccgaat ccgtgtgcgg 360
ctgtccagaa aacgtaatga ggatgaagat tcaccaaata agctatatac tttgggtacc 420
tatgtacctg ttaccacttt caaaatttct gtgctaaaca gtgttacagt cgccaagagc 480
ccataaaggg agccctcctg gaagtggatg aggccttggg tctcggctct tcattgcttc 540
ctgagctgca gcagatgcct ttacaaccaa gct 573
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<210> 381

<211> 531

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 381

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gcagnacnaa ccctcactaa agggaacaaa agctggagct ccaccgcggt gcggccgctc 60
tagaactagt ggatcccccg ggctgcagga attcggcacg aggcggcggt ggcggcttgt 120
gcagcaatgg ccaagatcaa ggctcgagat cttcgcggga agaagaagga ggagctgctg 180
aaacagctgg acgacctgaa ggtggagctg tcccagctgc gcgtcgccaa agtgacaggc 240
ggtgcggcct ccaagctctc taagatccga gtcgtccgga aatccattgc ccgtgttctc 300
acagttatta accagactca gaaagaaaac ctcaggaaat tctacaaggg caagaagtac 360
aagcccctgg acctgcggcc taagaagaca cgtgccatgc gccgccggct caacaagcac 420
gaggagaacc tgaagaccaa gaagcagcag cggaaggagc ggctgtaccc gctgcggaag 480
tacgcggtca aggcctgagg ggcgcattgt caataaagca cagtggctga g 531
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<210> 382

<211> 300

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (172)
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<220>
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<220>
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<222> (190)
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<220>

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<222> (271)

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<220>

<221> misc feature

<222> (292)

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<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

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<400> 382

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atgaatcctg tggagcatcc ttttggaggt ggcaaccacc agcacatcgg caagccctcc 120
accatccgca gagatgcccc tgctggccgc aaagtgggtc tcattgctgc nngcnggant 180
ggangtctcn ggggaaccaa gantgtgcag gagaaagaga actagtgtctg agggcctcaa 240
taaagtgtgt gtttatgccca aaaaaaaaaa naaaaaaaaa aaaaaaaaaa annaaagagn 300

<210> 383

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (363)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (404)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (451)

<223> n equals a,t,g, or c

<400> 383

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gtggcttccg cgaggtttcg gcagtggcat ccggggccgg ggtcgcggcc gtggacgggg 120
ccggggccga ggccgcggac tcgcgnaggc aaggccgagg ataaggagtg gatgcccgtc 180
accaagtttg gccgcttggt caaggacatg aagatcaagt ccctggagga gatctatctc 240
ttctccctgc ccattaagga atcagagatc attgattctt cctgggggct ctctcaagga 300
tgagttttga agatatgcca tgcagaagca gaccctgccg gccacgcacc agttcaagca 360
ttnttgnaac gggattaaat gccactcggt tggtttaatg nccnagagtg gcacncatcc 420
tgggcaaaac tggcaaattt caagtccttn naagtatggg gaaaatggaa cccaa 475
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<210> 384

<211> 127

<212> DNA

<213> Homo sapiens

<220>

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<222> (5)

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<220>

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<222> (8)

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<220>

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<222> (31)

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<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

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<222> (71)

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<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

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<222> (124)

<223> n equals a,t,g, or c

<400> 384

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angagattaa ncagagacac aggcaattgt atgtcagcag ctngatttaa cccacctaaa 120
aggngcgcg                                     127
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<210> 385

<211> 317

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

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<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

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<220>
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<222> (203)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

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gagaccagtg agaaacgccc cttcatgtgt gcttaccag gctgcaataa gagatatttt 120
aagctgtccc acttacagat gcacagcagg naagcacact ggtgagaaac cataccagtg 180
tgactttnaag gactgtgaac gangttttct cgttcagacc agctcaaaag ncaccaaagg 240
aggacataca ggtgtgaacc attnccagtg taaaattggt cagcgaaatt ctcccgggtcc 300
gaccaacnga ngaccna 317

<210> 386
<211> 433
<212> DNA
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<220>
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<220>
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<222> (311)
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<220>
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 <222> (359)
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<220>
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<220>
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 <222> (405)
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<220>
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 <222> (407)
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<220>
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 <222> (427)
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<400> 386
 tttcaaaagc tatttaggtg acactataga aggtagcctg caggttaccg gtccggaaat 60
 tcccgggtcg acccacgcgt ccgccgagag ccttagccga cggaaactgg acactggaac 120
 cggcagcgcc atgagactcc tccccgctt gctgctgctt ctcttactcg tgttccctgc 180
 cactgtcttg ttccgaggcg gccccagagg cttgttagca gtggcacaag atcttacaga 240
 ggatgaagaa acagtagaag attccataat tgaggatgaa gatgatgaag ccgangtaga 300
 agaagatgaa nccacagatt ttgtagaaga taaagaggaa gaagatgtgt ctggtgaanc 360
 tgaaacttta ccgagtgcag atacnactat actgttttta aaggngnaga ttttccgcca 420
 ataacantgt gaa 433

<210> 387
 <211> 407
 <212> DNA
 <213> Homo sapiens

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<220>
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 <222> (356)

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<220>

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<222> (359)

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<220>

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<222> (373)

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<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<220>

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<222> (407)

<223> n equals a,t,g, or c

<400> 387

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ggtgacgggt ctgtacgacg tgcaggcttt caagtttggg gacttcgtgc tgaagagcgg 120
gctttcctcc cccatctaca tcgatctgcg gggcatcgtg tctcgaccgc gtcttctgag 180
tcagggttgca gatattttat tccaaactgc ccaaaatgca ggcacagtt ttgacaccgt 240
gtgtggagtg ccttatacag ctttgccatt ggctacagtt atctgttcaa ccaatcaaat 300
tccaatgctt attanaagga aagaaacaaa ggattatgga actaagcgtc ttgtanaang 360
aatattaatc canganaaac tgtttaatca ttgaaatgtt gtcccan 407
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<210> 388

<211> 244

<212> DNA

<213> Homo sapiens

<220>

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<222> (215)

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<220>

<221> misc feature

<222> (221)

<223> n equals a,t,g, or c

<400> 388

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ttcgttcacg tatcgatcg ccacactcac aacaatgagt ggcagatata gcctgggtgg 60
tcaggcggcg catttttatt gctgtgttgc gctgtaattc ttctatttct gatgctgaat 120
caatgatgac tgccatcttt cattaatccc tgaactgttg gttaatacgc ttgaggggtga 180
atgcgaataa taaaaaagga gcctgtagct ccctnatgat nttgcttttc atgttcacg 240
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ttcc

244

<210> 389

<211> 239

<212> DNA

<213> Homo sapiens

<220>

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<222> (21)

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<220>

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<222> (55)

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<222> (64)

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<222> (71)

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<220>

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<222> (128)

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<222> (163)

<223> n equals a,t,g, or c

<220>

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<222> (185)

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<220>

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<222> (196)

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<220>

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<222> (202)

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<220>

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<222> (205)

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<400> 389

nggactggcg tcagacgtcg nattccggcg cccacggctg gcttaaaccg tggtncaatc 60
ctgncgcccc ncgtgatgcc agggaagaca gggcgacctg gaagtccaac tacttnctta 120
agatcatnca acgtattggg atgattatcc taaaatgggt tcnattggtg ggtagcgagt 180
acganatggt ggggcntcct anagntagta tggcgagcta gagtcccggc taatgttcc 239

<210> 390

<211> 382

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (54)

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<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<220>

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<222> (102)

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<220>

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<222> (103)

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<223> n equals a,t,g, or c

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<222> (126)
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<222> (169)
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<222> (217)
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<220>
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<222> (219)
<223> n equals a,t,g, or c

<220>
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<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
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<222> (342)
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<220>
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<222> (345)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
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<222> (360)
<223> n equals a,t,g, or c

<220>
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<222> (374)
<223> n equals a,t,g, or c

<400> 390
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cgcgctgcnc gcacactgag gccgcccggg acaaagcccg gnntcggngc gacctttggt 120
cccggnctca gtgagcgagc gagcgcgag agagggagtg gccaaacttna tcactagggg 180
ttccttgtag tnaatgatta acccgccatg ctacttngnc nacgtagcca tgggntacca 240
agctcgagct ctctagactc gacgcgcgta atacgactca ctatagggcg aatttgagct 300
ccaccgcggt tgcggccgct ctactagagt cgacctcatg gnttnncccc gaaacccgcn 360
aacaccgcgt gacncgccct ta 382

<210> 391
<211> 375
<212> DNA
<213> Homo sapiens

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<222> (6)
<223> n equals a,t,g, or c

<220>
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<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
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<222> (104)
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<220>
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<220>
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<222> (138)
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<220>
<221> misc feature
<222> (146)
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<220>
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<222> (159)
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<220>
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<222> (223)
<223> n equals a,t,g, or c

<220>
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<222> (261)
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<220>
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<220>
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<222> (275)
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<220>
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<222> (279)

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<220>

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<222> (299)

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<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 391

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cgggtgcagn tgccagggtg gcctgagcga tctacggatg ggcngtatgg agtggangag 120
acgagatgcg ggtgttanag caggginctga ccggagtgn acacatgagt gtcaggtgca 180
ggtagtccga gtcggcgaca tgagcctnga gtagagtcac cantcgatga gatctggagg 240
caactggcga gcaagaccgt ntgggtgcant gtcantcang ctggtgcagg tgagagcant 300
gcaactcgtcg agtggcgaga cagatcaatc tctgttagcg ggtggagggt ncactcgcgc 360
tgtgngggtg cactg 375
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<210> 392

<211> 121

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

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<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>
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<222> (56)
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<220>
<221> misc feature
<222> (113)
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<220>
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<222> (118)
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<220>
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<400> 392
gantcatcng agngtgtgga tttgagccgc cgcatttttt aaccctaaat ctcganatgc 60
atcgtgnttc ctgtccattg gactgtaagg tttatgtagg catcttgga acnatggan 120
a 121

<210> 393
<211> 83
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<400> 393
ggcagagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaanncccn ggngggggcc ccc 83

<210> 394
<211> 218
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<400> 394
gtcggcgcag aangcgcccc gcacccccgc caggcgcatg tctgcacctc cgcttgccaa 60
aggncctcgg tcagcgactg gatgctcgcc atcaaggctc agtggaagtt cttcaagagg 120
aaaggcgccc ccgccccagg cttccgcgcc cagcgctcgc cacgctcagt gcccgtttta 180
ccaataaact gagcgacccc aaaaaaaaaa aaaaaaag 218

<210> 395
<211> 83
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (13)
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<220>
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<222> (83)
<223> n equals a,t,g, or c

<400> 395
aattcggcac ngnaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaaa aaaaaaaaaa aan

83

<210> 396

<211> 70

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (69)

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<400> 396

aattcggcac agaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaaaaaaana

70

<210> 397

<211> 140

<212> DNA

<213> Homo sapiens

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<222> (74)

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<222> (113)

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<220>

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<222> (139)

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<400> 397

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cgcccccaaa acanataacc aattgtatatt atngaaaaat aaatagatac aannnactaa 120
acatagcaat tcagatctnt                                     140
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<210> 398

<211> 157

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

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<220>

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<222> (122)

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<220>

<221> misc feature

<222> (123)

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<220>

<221> misc feature

<222> (126)

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<220>

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<222> (134)
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<220>
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<400> 398
aattcggcan agctcaagca gacggggctc aaggggggta catttaataa aaggatgaag 60
atggnaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
nnnccngggg gggnccccc ccccccttn cccctt 157

<210> 399
<211> 358
<212> DNA
<213> Homo sapiens

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<222> (84)
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<220>
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<222> (204)
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<220>
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<222> (207)
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<220>
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<220>
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<220>
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<222> (308)
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<220>
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<222> (331)
<223> n equals a,t,g, or c

<220>
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<222> (341)
<223> n equals a,t,g, or c

<400> 399
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gcaagcgcca tatgagcctg gcgncgccaa tagcgaatcc tgttgtgggc tttttggcct 120
attcccgccc ctcagtcttg ccgggatggc accgcccgca taggacttcc agggttgggc 180
tgagtgggag ttcgactgct gggncctngta attctcgctt tgggggctgc tccttccagg 240
ctggggacac actggggccc gttgttcggt ctcccgtcct ccgacatctt gtctggaact 300
tncgncctngc agtttccata ggagttggag nctgtgcggc ntaattttgg tggaaaaa 358

<210> 400
<211> 399
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (27)
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<222> (169)
<223> n equals a,t,g, or c

<220>
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<222> (171)
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<220>
<221> misc feature
<222> (213)
<223> n equals a,t,g, or c

<220>
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<222> (216)
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<222> (218)
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<222> (245)
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<222> (248)
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<222> (255)
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<220>
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<222> (262)
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<220>
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<222> (269)
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<220>
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<222> (279)
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<220>
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<222> (283)
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<220>
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<222> (292)
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<220>
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<220>
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352

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<220>

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<222> (364)

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<220>

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<222> (382)

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<400> 400

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aaaacccaan tcagagtatc canaaatcca agccagggtca aaaccaaacc gaaantntca 120
agcaatccaa atcaagtcaa aaacaaaaac caaagtgccg gtacaggcnt nccgtgggtg 180
atcaggccac ccttccactc aaatggagtg ggnaantncc aaagactagt nttaccaant 240
ttcanatntc cggantccaa gngcctgtnc cttcccagng tttagccgct gnattgatcc 300
tctgtggggg cctgcnaaac gccantctgg cgagggtgtc cactggggna attgcctacc 360
cggnagtgtc ctcaggttct gngtcctca agctggcca 399
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<210> 401

<211> 189

<212> DNA

<213> Homo sapiens

<220>

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<222> (11)

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<222> (162)

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<220>

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<222> (165)

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<222> (166)

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<220>

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<222> (187)

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<400> 401

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acaattgttg aaacctgcta tacatgttta ttttaataaa ttgatggcaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa anccnngggg ggggcccccc 180
ccccccntt                                     189
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<210> 402

<211> 174

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (73)

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<220>

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<222> (103)

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<220>

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<222> (107)

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<222> (130)

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<220>

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<222> (132)

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<220>

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<222> (146)

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<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<400> 402
aattcggcan agctgaggca ggagaatcgc ttgaattcgg gaggcagagc tgagatcaca 60
cctctgacac tcnagcctgg gtgacagagc gagactccgt ctnaggnaag gaaaaaaaaa 120
aaaaaaaaan cncggggggg gccccngtnc ccaattggcc ctatagnggg tcgt 174

<210> 403
<211> 263
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (252)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)
<223> n equals a,t,g, or c

355

<400> 403

```
ggcanagcca acccagcagt ccttcctca gctgcctagg aggaaggac ccagctgggt 60
ctgggaccac aaggaggag actgcacccc actgcctctg ggccctggct gtgggcagag 120
gccaccgtgt gtgtcccgag taaccgtgcc gttgtcgtgt gatgccataa gcgtctgtgc 180
gtggagtgcc caatgaaacc tgtggtcctg cctgggcaaa aaaaaaaaaa naaaanaaaa 240
anaaaagaaa anaaaaaaan aaa                                     263
```

<210> 404

<211> 478

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 404

```
tcgacccacg cgtcggggg ctgcagcatg ttgctgagga gtgaggaata gttgagcccc 60
aagtcctgaa gaggcgggcc agccaggetg acatctgtgt ttcaagtggg gctcgccatg 120
ccgggggttc ataggctact ggctctccaa gtgccagang tgggcagggtg gtggcactga 180
gcccccccaa cactgtgccc tgggtggagaa agcactgacc tgtcatgccc cctcaaacc 240
tcctcttctg acgtgcctnt tgcacccctc ccattaggac aatcagtccc ctcccatctg 300
ggagtccct tttcttttct accctagcca ttcctggtac ccagccatct gcccaaggg 360
gccccctect ctcccatccc cctgccctcg tgggcagccc ggctggttt gttaaagtgg 420
gttgatgnaca gtgatttttt cttgtattta aaaaaggcca gcattgtggt tcattaaa 478
```

<210> 405

<211> 223

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (223)
<223> n equals a,t,g, or c

<400> 405
agacagcagg acggtggcca tggaagtcgg aatccgctaa ggagtgtgta acaactcacc 60
tgccgaatca actagccctg aaaatggatg gcgctggagc gtcggggcca taccggtccg 120
tcgccggcag tcgagagtgg acggggancgg cgggggcngc gcgcgcgcgc gncgtgatgg 180
tgtgcgtcgg agggcggcgg cggcggcggg ggtgtgnngt ccn 223

<210> 406
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

357

<400> 406
cccacgcntc cgccgacagc agcagcctca ccatgangtt gctgatggtc ctcatgctgg 60
cggccctctc ccagcactgc nacgcaggct ctngctgccc ctna 104

<210> 407
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<400> 407
gccctatagt gagtctngta ncaattcact ggccgctcgtt ttacaacgtc gtgacgngga 60
aaactn 66

<210> 408
<211> 278
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<400> 408

```
gggcanaagca agctcctgna cctcaagtga tccacatgcc ttggttgacc aaattgctgg 60
gattacaggc atgagccaat atgaccagct caaacatctt ctttttaaata gtcagaagca 120
tgtatagtga ttatttctta ttttttcccc cttgatccat ctcaccagat gtttggtgat 180
tttataagaa ttttcaaact accagcttct ggctttgttg aacttgggat ttctgtttca 240
ctaattttct tntcctctgc ttgtacttac tttgntgg 278
```

<210> 409

<211> 168

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (16)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<400> 409

```
aataaaactc taaaangatc actataaaaa aagcaggnac gcctgcaggt accggtccgg 60
aattcccggg tcgaccacg cgtccgacgg ctgcgagaag acgacagaag ggcacggctg 120
cgagaanacg acagaagggn gcnantgaaa gaaggcggca gaaaggnt 168
```

<210> 410

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (307)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 410

```
tgaataccta agatttctgt cttgggggttt ttggtgcatg cagttgatta cttcttattt 60
ttcttaccaa ttgtgaatgt tgggtgtgaaa caattaatga agcttttgaa tcatccctat 120
tctgtgtttt atctagtcac ataaatggat taattactaa tttcagttga gaccttctaa 180
ttggttttta ctgaaacatt gaggaacac aaatttatgg gcttcctgat gatgattctt 240
ctaggcatca tgtcctatag tttgtcatcc ctgatgaatg taaaattaca ctgttcacaa 300
aggtttngtc tcctttccac tgctattaat catggtcact ctcccnaaa tattatattt 360
tttctattaa aagaaaaaaa tggaaaaaaa ttacaaggca atggaaacta ttata 415
```

<210> 411

<211> 636

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

360

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (544)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (603)

<223> n equals a,t,g, or c

<400> 411

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gcagatcaga cggtggcgacc cgctgaattt aagcatatta gtcagcggag gagaagaaac 60
taaccaggat tccctcagta acggcgagtg aacagggaag agcccagcgc cgaatccccg 120
cccccgggcg gggcgcgagg catgtggcgt acggaagacc cgctcccccg cgccgctcgt 180
ggggggccca agtccttctg atcgaggccc agcccgtgga cgggtgtgagg ccggtagcgg 240
cccccgggcg gccgggcccg ggtcttcccg gagtcggggt gcttgggaat gcagcccaa 300
gcgggtggta aactccatct aaggctaaat ccccttgtaa atttaactgt tagtccaaag 360
aggaaacagct ctttgacac tangaaaaa ccttgtagag agagtaaaaa atttaacacc 420
catagtaggc ctaaaagcag ccaccaatta agaaagcgtt caagctcaac acccactacc 480
taaaaaatcc caaacatata actgaactcc tnacaccna ttggaccaat ctatcaccct 540
atanaanaac taatggtagt ataagtaaca tgaaaacatt ctnccttcgca taagcctgng 600
tanattaaaa cacttgaact gaccattaac aggcca 636
```

<210> 412

<211> 182

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<400> 412
ccattgattt ttatcaatag tcgtattcat acggatagtc ctggtattgt tccatcacat 60
tctgaggatg ctcttcgaac tcttcaaatt cttcttccat atatcacctt aaatagtgga 120
ttgcggtant aaagattgtg cctgtctttt aaccacatca ggctcngann gntctcgtga 180
ac 182

<210> 413
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (323)
<223> n equals a,t,g, or c

<220>

<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<400> 413
tcgacccacg cgtccgccca cgcgtccgcc aagaccaccc tcctttcatt tgctagaagg 60
actcactaga ctcaggaaaag ctgttaggct cacagttaca gtttattaca gtaaaaggac 120
agagattaag atcagcaaag ggaggagggtg cacagcnacg ttccacgaca gatgaggcga 180
cggcttccat ctgccctctc ccagtggagc catataggca gcacctgatt ctcacagcaa 240
catgtgacaa canccaagaa gtactgcaa tactgccaac cagagcagct tcactcggag 300
atctttgtgt tccaganttt ttngtttgtc ttggagacag ggtctgggnc ngtttgggca 360
gacnaagagt acatggtgga gattcac 387

<210> 414
<211> 276
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (186)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<400> 414

```
gcaaagggtcc atactgggta cttgggtttca ttgccaccac ttagtggatg ttcagtttan 60
aaccattttg tctgctccct ctggaagcct tgcgcatagc ttactttgta attgttggag 120
aataactgct gaatttttag ctgttttgag ttgattcgca ccactgcacc acaactcact 180
atgaanacta tttancttat ttattatctt gtgaaaagta taccatgaaa attttgntca 240
tactgtatatt atcaagtatn attaanagca ctagat 276
```

<210> 415

<211> 192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (99)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (145)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

364

<222> (168)

<223> n equals a,t,g, or c

<400> 415

```
aaaagattgg actaagacac tggccatacc actggacagg gttatgttaa cacctgaaat 60
tgctgggtct tgagagancc caacgcantt ctgggagang gaccacattg gggggtaggt 120
ccacgggctt ggtgatagaa ttatntctcn atcgacttct tgantgcnat atgaactgta 180
acatttgctt ag                                     192
```

<210> 416

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (434)

<223> n equals a,t,g, or c

<400> 416

```
gcgagantnc gacagaaggg tacggctgcg agagacgaca gaagggtacg gctgcgagaa 60
gacnacagaa ggggtacggct gcgagaagac gacagaaggg tacggctgcg agaagacgac 120
agaagggtac ggctgcgaga agacgacaga aggtacggct gcgagaagac gacagaagga 180
tacggctgcg agaagacgac agaagggaga atcttagttc aactttaaat ttgcccacag 240
aaccctctaa atccccttgt aaatttaact gttagtccaa agaggaacag ctctttggac 300
actaggaaaa aaccttgtag agagagtaaa aaatttaaca cccatagtag gcctaaaagc 360
agccaccaat taagaaagcg ttcaaagctc aacacccact acccanaaaa taaaaanaaa 420
naaaaacccg nggnccgct                                     439
```

<210> 417

<211> 155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<400> 417

```
gacatcttnt tggtttttat tttgaaacaa tttttaggct tgttccgggg gtctctgtgc 60
tgccctgtact gtattgacct gttntatagg tgccttttta ttaaaaagaa aattcaaaaa 120
```

annaaaaaaaa aaattaataa aaaaaaaaaa aanca

155

<210> 418

<211> 291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (285)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (289)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<400> 418

gaaaaaaaa atccatatct taaagaaaca gctttcaagt gcctttctgc agtttttcag 60
gagcgcaaga tagatttgga ataggaataa gctctagttc ttaacaaccg acactcctac 120
aagatttaga aaaaagttta caacataatc tagtttacag aaaaatcttg tgctagaata 180
ctttttaaaa ggtattttga ataccattaa aactgctttt ttttttccag caagtatcca 240
accaacttgg ttctgcttca ataaatcttt ggaaaaacta atttnnanna n 291

<210> 419

<211> 340

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

367

<222> (315)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 419

Val	Xaa	Asp	Trp	Phe	Leu	Trp	Tyr	Val	Lys	Lys	Cys	Gly	Gly	Thr	Thr
1				5					10					15	

Arg	Ile	Ile	Ser	Thr	Thr	Asn	Gly	Gly	Gln	Glu	Arg	Lys	Phe	Val	Gly
			20				25						30		

Gly	Ser	Gly	Gln	Val	Ser	Glu	Arg	Ile	Met	Asp	Leu	Leu	Gly	Asp	Arg
		35					40					45			

Val	Lys	Leu	Glu	Arg	Pro	Val	Ile	Tyr	Ile	Asp	Gln	Thr	Arg	Glu	Asn
	50					55					60				

Val	Leu	Val	Glu	Thr	Leu	Asn	His	Glu	Met	Tyr	Glu	Ala	Lys	Tyr	Val
65					70				75						80

Ile	Ser	Ala	Ile	Pro	Pro	Thr	Leu	Gly	Met	Lys	Ile	His	Phe	Asn	Pro
			85					90						95	

Pro	Leu	Pro	Met	Met	Arg	Asn	Gln	Met	Ile	Thr	Arg	Val	Pro	Leu	Gly
		100					105						110		

Ser	Val	Ile	Lys	Cys	Ile	Val	Tyr	Tyr	Lys	Glu	Pro	Phe	Trp	Arg	Lys
	115					120						125			

Lys	Asp	Tyr	Cys	Gly	Thr	Met	Ile	Ile	Asp	Gly	Glu	Glu	Ala	Pro	Val
130					135						140				

Ala	Tyr	Thr	Leu	Asp	Asp	Thr	Lys	Pro	Glu	Gly	Asn	Tyr	Ala	Ala	Ile
145				150					155						160

Met	Gly	Phe	Ile	Leu	Ala	His	Lys	Ala	Arg	Lys	Leu	Ala	Arg	Leu	Thr
		165					170						175		

Lys	Glu	Glu	Arg	Leu	Lys	Lys	Leu	Cys	Glu	Leu	Tyr	Ala	Lys	Val	Leu
		180					185						190		

Gly	Ser	Leu	Glu	Ala	Leu	Glu	Pro	Val	His	Tyr	Glu	Glu	Lys	Asn	Trp
	195					200						205			

Cys	Glu	Glu	Gln	Tyr	Ser	Gly	Gly	Cys	Tyr	Thr	Thr	Tyr	Phe	Pro	Pro
210						215					220				

Gly	Ile	Leu	Thr	Gln	Tyr	Gly	Arg	Val	Leu	Arg	Gln	Pro	Val	Asp	Arg
225				230					235						240

Ile	Tyr	Phe	Ala	Gly	Thr	Glu	Thr	Ala	Thr	His	Trp	Ser	Gly	Tyr	Met
			245					250						255	

368

Glu Gly Ala Val Glu Ala Gly Glu Arg Ala Ala Arg Glu Ile Leu His
 260 265 270
 Ala Met Gly Lys Ile Pro Glu Asp Glu Ile Trp Gln Ser Glu Pro Glu
 275 280 285
 Ser Val Asp Val Pro Ala Gln Pro Ile Thr Thr Thr Phe Leu Glu Arg
 290 295 300
 His Leu Pro Ser Val Pro Gly Leu Leu Arg Xaa Ile Gly Leu Thr Thr
 305 310 315 320
 Ile Phe Ser Ala Thr Ala Leu Gly Phe Leu Ala His Lys Arg Gly Leu
 325 330 335
 Leu Val Arg Val
 340

<210> 420

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 420

Thr Arg Asp Leu Val Ser Phe Ile Ser Gly Ile Arg Leu Tyr Asn Leu
 1 5 10 15
 Met Leu Ser Val Leu Arg His Lys Arg Gln Asn Val Ala Tyr Phe Arg
 20 25 30
 Ile Cys Phe Phe Ile Glu Val Ser Gly Ile Leu Ser Lys Ile Val Xaa
 35 40 45
 Ser Arg His Cys Ser Leu Cys Ser Ser Gly Thr Ser Cys Pro Leu Leu
 50 55 60
 Ser Leu Gln Ala Thr Gly Asn Ala Ser Val Leu Val Ser Trp Arg Lys
 65 70 75 80
 Ile Thr Trp Gly Glu Gly Thr Ser Cys Gly Lys Ser Lys Cys Arg Tyr
 85 90 95
 Glu Met Arg Arg Leu Pro Gln Leu Lys Val Asp Lys Ser Ala Leu

369

100

105

110

<210> 421

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 421

Xaa Ile Trp Cys Ile Ile Cys Lys Glu Ser Lys Met Met Ser Phe Pro
 1 5 10 15

Arg Gly Met Asn Leu Arg Asn Ala Phe Asp Gly Asp Val Ser Val Thr
 20 25 30

Leu Cys Tyr Ser Gly Ser Ser Asn Asn Ser Lys Ala Asn Tyr Ser Lys
 35 40 45

Cys Lys Ile Phe Leu Phe Pro Arg Phe Thr Phe Val Trp
 50 55 60

<210> 422

<211> 51

<212> PRT

<213> Homo sapiens

<400> 422

Thr His Ala Tyr Cys Ser Asn Leu Ser Phe Arg Leu Tyr Asp Gln Trp
 1 5 10 15

Arg Ala Trp Met Gln Lys Ser His Lys Thr Arg Asn Gln His Arg Thr
 20 25 30

Arg Gly Ser Cys Pro Arg Ala Asp Gly Ala Arg Arg Glu Val Leu Pro
 35 40 45

Asp Lys Leu
 50

<210> 423

<211> 246

370

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (147)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 423

Thr	Arg	Asn	Asp	Met	Lys	Ala	Asp	Cys	Ile	Leu	Tyr	Tyr	Gly	Phe	Gly
1				5					10					15	

Asp	Ile	Phe	Arg	Ile	Ser	Ser	Met	Val	Val	Met	Glu	Asn	Val	Gly	Gln
			20					25					30		

Gln	Lys	Leu	Tyr	Glu	Met	Val	Ser	Tyr	Cys	Gln	Asn	Ile	Ser	Lys	Cys
	35							40				45			

Arg	Arg	Val	Leu	Met	Ala	Gln	His	Phe	Asp	Glu	Val	Trp	Asn	Ser	Glu
	50					55					60				

Ala	Cys	Asn	Lys	Met	Cys	Xaa	Asn	Cys	Cys	Lys	Asp	Ser	Ala	Phe	Glu
65					70					75				80	

Arg	Lys	Asn	Ile	Thr	Glu	Tyr	Cys	Arg	Asp	Leu	Ile	Lys	Ile	Leu	Lys
			85						90					95	

Gln	Ala	Glu	Gly	Xaa	Gly	Met	Glu	Lys	Leu	Thr	Pro	Ile	Gly	Asn	Trp
		100						105					110		

Ile	Asp	Ser	Trp	Xaa	Gly	Lys	Gly	Ala	Ala	Lys	Leu	Arg	Val	Ala	Gly
	115						120					125			

Val	Val	Ala	Pro	Thr	Leu	Pro	Arg	Glu	Asp	Leu	Glu	Lys	Ile	Ile	Ala
	130					135					140				

371

His Phe Xaa Ile Gln Gln Tyr Leu Lys Glu Asp Tyr Ser Phe Thr Ala
 145 150 155 160

Tyr Ala Thr Ile Ser Tyr Leu Lys Ile Gly Pro Lys Ala Asn Leu Leu
 165 170 175

Asn Asn Glu Ala His Ala Ile Thr Met Gln Val Thr Lys Ser Thr Gln
 180 185 190

Asn Ser Phe Arg Ala Glu Ser Ser Gln Thr Cys His Ser Glu Gln Gly
 195 200 205

Asp Lys Lys Met Glu Glu Lys Asn Ser Gly Asn Phe Gln Lys Lys Ala
 210 215 220

Ala Asn Met Leu Gln Gln Ser Gly Ser Lys Asn Thr Gly Ala Lys Lys
 225 230 235 240

Arg Lys Ile Asp Asp Ala
 245

<210> 424

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 424

Asp His Trp Pro Arg Pro Glu Trp Leu Pro Cys Thr Ser Trp Arg Arg
 1 5 10 15

Ala Ser Cys Leu Asn His Val Asn Cys His His Leu Ala Thr Pro Ala
 20 25 30

Pro Ala Ser Ala Leu Pro Pro Phe Pro Pro Ser Trp Ser Gly Gly Tyr
 35 40 45

Arg Ser Leu Gly Pro Thr Leu Ala Pro Leu Ser Pro Ala Ser Val Cys
 50 55 60

Leu Thr Val Phe Pro Pro Leu Pro Gln Leu Arg Cys Xaa Pro Gln Ala
 65 70 75 80

Trp Cys Cys Leu Gly Gly Leu Gly Glu Gly Val Cys Gly Gly Gly Arg
 85 90 95

372

Arg Val Lys Thr Glu Ala Arg Cys Gln Asn Gly Leu Glu
 100 105

<210> 425

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 425

Gly Ser Glu Thr Xaa Lys Tyr Leu Val Glu Asp Lys Arg Leu Gly Leu
 1 5 10 15

Tyr Thr Trp Leu Cys Thr Asp Leu Leu Ser His Ile Gly Asn His His
 20 25 30

Thr Leu Gln Gly Ile Ser Phe Ile Cys Lys Met Gln Arg Leu Val Leu
 35 40 45

Xaa Asn His Thr Asn Phe Phe Val Leu
 50 55

<210> 426

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 426

Phe Gly Thr Ser Gly Asp Gly Gly Gly Ser Lys Met Ala Gln Ala Ile
 1 5 10 15

Phe Glu Ala Leu Glu Gly Met Asp Asn Gln Thr Val Leu Ala Val Gln

373

20 25 30
 Ser Leu Leu Asp Gly Gln Gly Ala Val Pro Asp Pro Thr Gly Gln Ser
 35 40 45
 Val Asn Ala Pro Pro Ala Ile Gln Pro Leu Asp Asp Glu Asp Val Phe
 50 55 60
 Leu Cys Gly Lys Cys Lys Lys Gln Phe Asn Ser Leu Pro Ala Phe Met
 65 70 75 80
 Thr His Lys Arg Glu Gln Cys Gln Gly Asn Ala Pro Ala Leu Ala Xaa
 85 90 95
 Val Ser Leu

<210> 427
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 427
 Asn Ser Asn Ser Ser Ile Phe Ser Leu Val Ser Val Lys Cys Asp Lys
 1 5 10 15
 Ser Thr Tyr Phe Lys Leu Phe Ser Ala Leu Gly Tyr Ser Ser Asn Lys
 20 25 30
 Asn Thr Asn Leu Trp Val Phe Lys Lys Thr Trp Arg Ile Asn Ser Tyr
 35 40 45
 Phe Lys Arg Ser Lys Lys Lys
 50 55

<210> 428
 <211> 54
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 428
 His Thr Leu Ser Asn Leu Glu Phe Ala Gln Lys Val Glu Pro Cys Asn

374

1 5 10 15
Asp His Val Arg Ala Lys Leu Ser Trp Ala Lys Lys Arg Asp Glu Asp
20 25 30
Asp Val Pro Thr Val Pro Ser Thr Xaa Gly Glu Glu Arg Leu Tyr Asn
35 40 45
Pro Phe Leu Arg Val Ala
50

<210> 429
<211> 39
<212> PRT
<213> Homo sapiens

<400> 429
Arg Gln Thr Lys Val Asn Leu Lys Glu Thr Arg Ser Phe Glu Ile Ile
1 5 10 15
Val Trp Gly Phe Tyr Lys Ser Asn Tyr Cys His Leu His Pro Asp Ser
20 25 30
Phe Lys Leu Leu Ile His Pro
35

<210> 430
<211> 133
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (81)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (85)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 430
Ala Arg Ala Pro Arg Val Pro Pro Ala Pro His Thr Pro Ser Lys Met
1 5 10 15
Gly Lys Glu Lys Thr His Ile Asn Ile Val Val Ile Gly His Val Asp
20 25 30

375

Ser Gly Lys Ser Thr Thr Thr Gly His Leu Ile Tyr Lys Cys Gly Gly
 35 40 45

Ile Asp Lys Arg Thr Ile Glu Lys Phe Glu Lys Glu Ala Ala Glu Met
 50 55 60

Gly Lys Gly Ser Phe Lys Tyr Ala Trp Val Leu Asp Lys Leu Lys Ala
 65 70 75 80

Xaa Val Ser Ala Xaa Ile Thr Ile Asp Ile Ser Leu Trp Lys Phe Glu
 85 90 95

Thr Thr Lys Tyr Tyr Ile Thr Ile Ile Asp Ala Pro Gly His Arg Asp
 100 105 110

Phe Ile Lys Asn Met Ile Thr Gly Thr Ser Gln Ala Asp Cys Ala Val
 115 120 125

Leu Ile Val Ala Ala
 130

<210> 431

<211> 190

<212> PRT

<213> Homo sapiens

<400> 431

Leu Cys Trp Ala Arg Pro Leu Pro Ser Gly Pro Val Leu Leu Ala Ala
 1 5 10 15

Asn Lys Asp Ser Ser Trp Cys Pro Thr Cys Leu Val His Cys Cys Val
 20 25 30

Asn Pro Gly Gly Ser Gly His Arg Arg Gln Pro Arg Pro Arg Val Gln
 35 40 45

Glu Lys Cys Ser Leu Glu Ala Arg Thr Thr Ala Ser His Trp Gly Arg
 50 55 60

Arg Gly Pro Arg Thr Thr Ser Ala Ser Tyr Leu Pro Ala Ser Ala Arg
 65 70 75 80

Gly Pro Arg Asp Ala Val Leu Phe Gln Pro Pro Ala Leu Gly Arg Gly
 85 90 95

His Ala Ser Arg Ile Gln Gly Ala Gly Gly Leu Ser Thr Ala Arg Thr
 100 105 110

376

Cys Leu Leu Ala Ala Ala Ala Val Gly Glu His Gly Gly Cys Gln Arg
 115 120 125

Leu Leu Trp Lys Val Ala Ala Ser Glu Met Ala Gly Ala Ala Gly Val
 130 135 140

Arg Leu His Thr Ala Gln Val Ser Ser Gly Arg Leu Ser Trp Gly Gly
 145 150 155 160

Ser Ser Ser Ala Glu Gly Trp Trp Gly Val Gln Ser Val Ile Leu Gly
 165 170 175

Ala Val Cys Pro Thr Pro Ala Trp Gly Pro His Phe Arg Arg
 180 185 190

<210> 432

<211> 310

<212> PRT

<213> Homo sapiens

<400> 432

Gly Pro His Gly Asn Gly Glu Val Arg Trp Pro Leu Pro Pro Pro Pro
 1 5 10 15

Pro Arg Phe Val Ala Arg Arg Lys Met Ala Asp Leu Glu Glu Gln Leu
 20 25 30

Ser Asp Glu Glu Lys Val Arg Ile Ala Ala Lys Phe Ile Ile His Ala
 35 40 45

Pro Pro Gly Glu Phe Asn Glu Val Phe Asn Asp Val Arg Leu Leu Leu
 50 55 60

Asn Asn Asp Asn Leu Leu Arg Glu Gly Ala Ala His Ala Phe Ala Gln
 65 70 75 80

Tyr Asn Leu Asp Gln Phe Thr Pro Val Lys Ile Glu Gly Tyr Glu Asp
 85 90 95

Gln Val Leu Ile Thr Glu His Gly Asp Leu Gly Asn Gly Lys Phe Leu
 100 105 110

Asp Pro Lys Asn Arg Ile Cys Phe Lys Phe Asp His Leu Arg Lys Glu
 115 120 125

Ala Thr Asp Pro Arg Pro Cys Glu Val Glu Asn Ala Val Glu Ser Trp
 130 135 140

Arg Thr Ser Val Glu Thr Ala Leu Arg Ala Tyr Val Lys Glu His Tyr

377

145	150	155	160
Pro Asn Gly Val Cys Thr Val Tyr Gly Lys Lys Ile Asp Gly Gln Gln	165	170	175
Thr Ile Ile Ala Cys Ile Glu Ser His Gln Phe Gln Ala Lys Asn Phe	180	185	190
Trp Asn Gly Arg Trp Arg Ser Glu Trp Lys Phe Thr Ile Thr Pro Ser	195	200	205
Thr Thr Gln Val Val Gly Ile Leu Lys Ile Gln Val His Tyr Tyr Glu	210	215	220
Asp Gly Asn Val Gln Leu Val Ser His Lys Asp Ile Gln Asp Ser Leu	225	230	235
Thr Val Ser Asn Glu Val Gln Thr Ala Lys Glu Phe Ile Lys Ile Val	245	250	255
Glu Ala Ala Glu Asn Glu Tyr Gln Thr Ala Ile Ser Glu Asn Tyr Gln	260	265	270
Thr Met Ser Asp Thr Thr Phe Lys Ala Leu Arg Arg Gln Leu Pro Val	275	280	285
Thr Arg Thr Lys Ile Asp Trp Asn Lys Ile Leu Ser Tyr Lys Ile Gly	290	295	300
Lys Glu Met Gln Asn Ala	305	310	

<210> 433

<211> 289

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 433

Gln Ser Cys Thr Ser Gly Ser Ser Lys Pro Asn Ser Pro Ser Ile Ser

378

1	5	10	15
Pro Ser Ile	Leu Ser Asn Thr Glu His Lys Arg Gly Pro Glu Val Thr		
	20	25	30
Ser Gln Gly Val Gln Thr Ser Ser Pro Ala Cys Lys Gln Glu Lys Asp			
	35	40	45
Asp Lys Glu Glu Lys Lys Asp Ala Ala Glu Gln Val Arg Lys Ser Thr			
	50	55	60
Leu Asn Pro Asn Ala Lys Glu Phe Asn Pro Arg Ser Phe Ser Gln Pro			
	65	70	75
Lys Pro Ser Thr Thr Pro Thr Ser Pro Arg Pro Gln Ala Gln Pro Ser			
	85	90	95
Pro Ser Met Val Gly His Gln Gln Pro Thr Pro Val Tyr Thr Gln Pro			
	100	105	110
Val Cys Phe Ala Pro Asn Met Met Tyr Pro Val Pro Val Ser Pro Gly			
	115	120	125
Val Gln Pro Leu Tyr Pro Ile Pro Met Thr Pro Met Pro Val Asn Gln			
	130	135	140
Ala Lys Thr Tyr Arg Ala Gly Lys Val Pro Asn Met Pro Gln Gln Arg			
	145	150	155
Gln Asp Gln His His Gln Ser Ala Met Met His Pro Ala Ser Ala Ala			
	165	170	175
Gly Pro Pro Ile Ala Ala Thr Pro Pro Ala Tyr Ser Thr Gln Tyr Val			
	180	185	190
Ala Tyr Ser Pro Gln Gln Phe Pro Asn Gln Pro Leu Val Gln His Val			
	195	200	205
Pro His Tyr Gln Ser Gln His Pro His Val Tyr Ser Pro Val Ile Gln			
	210	215	220
Gly Asn Ala Arg Met Met Ala Pro Pro Thr His Ala Gln Pro Gly Leu			
	225	230	235
Val Ser Ser Ser Ala Thr Gln Tyr Gly Ala His Glu Gln Thr His Ala			
	245	250	255
Met Tyr Ala Cys Pro Lys Leu Pro Tyr Asn Lys Glu Thr Ser Pro Ser			
	260	265	270
Phe Tyr Phe Ala Ile Ser Thr Gly Ser Leu Ala Gln Gln Tyr Xaa Xaa			

379

275

280

285

Pro

<210> 434

<211> 147

<212> PRT

<213> Homo sapiens

<400> 434

Lys Val Thr Pro Asp Leu Lys Pro Thr Glu Ala Ser Ser Ser Ala Phe
 1 5 10 15

Arg Leu Met Pro Ala Leu Gly Val Ser Val Ala Asp Gln Lys Gly Lys
 20 25 30

Ser Thr Val Ala Ser Ser Glu Ala Lys Pro Ala Ala Thr Ile Arg Ile
 35 40 45

Val Gln Gly Leu Gly Val Met Pro Pro Lys Ala Gly Gln Thr Ile Thr
 50 55 60

Val Ala Thr His Ala Lys Gln Gly Ala Ser Val Ala Ser Gly Ser Gly
 65 70 75 80

Thr Val His Thr Ser Ala Val Ser Leu Pro Ser Met Asn Ala Ala Val
 85 90 95

Ser Lys Thr Val Ala Val Ala Ser Gly Ala Ala Arg Pro Pro Ser Ala
 100 105 110

Ser Ala Gln Glu Pro Pro Pro Cys Gly Arg Ser Leu Ser Ala Pro Arg
 115 120 125

Leu Cys Pro Arg Pro Arg Leu Gly Ser Cys Leu His Gly Ser Gln Phe
 130 135 140

Pro Ser Leu
 145

<210> 435

<211> 151

<212> PRT

<213> Homo sapiens

<220>

380

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 435

Gly	Ser	Gly	Thr	Lys	Asp	Pro	Ser	Xaa	Cys	Asn	Thr	Gln	Thr	Xaa	Ala
1				5				10						15	

His	Thr	His	Thr	Gly	Gly	Glu	Ile	Ser	Leu	Phe	Ser	Met	Ser	Phe	Phe
			20					25					30		

Ser	Trp	Ala	Glu	Thr	Gly	Tyr	Cys	Pro	Gly	Gln	Leu	Pro	Glu	Lys	His
		35					40					45			

Arg	Arg	Glu	Leu	Arg	Ser	Ala	Arg	Pro	Ser	Ser	Leu	Ala	Pro	Gly	Phe
		50				55					60				

Gly	Gly	Pro	Arg	Thr	Ala	Asp	Arg	Gly	Trp	Ser	Trp	Arg	Leu	Xaa	Ser
65					70					75					80

Arg	Ala	Tyr	Thr	Trp	Arg	Asn	Ala	Pro	Pro	Ser	Ser	Pro	Ser	Leu	Gln
				85				90						95	

Thr	Trp	Gly	Trp	Leu	Gly	Pro	Glu	Gly	Cys	Asp	Glu	Glu	Lys	Arg	Ala
		100						105					110		

Ser	Val	Gly	Met	Arg	Gln	Glu	Gly	Ile	Asp	Phe	Asp	Cys	Asp	Leu	Trp
		115					120					125			

Gly	Phe	Leu	Pro	Ala	Leu	Asp	Asn	Pro	Ala	Lys	Asp	Cys	Phe	Phe	Leu
	130					135					140				

Ser	Leu	Ala	Arg	Arg	Gly	Pro
145					150	

<210> 436

<211> 180

<212> PRT

<213> Homo sapiens

381

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 436

Ala	Pro	Ala	Ser	Pro	Val	Met	Pro	Pro	Gln	Thr	Gln	Ser	Pro	Gly	Gln
1				5					10					15	

Pro	Ala	Gln	Pro	Ala	Pro	Met	Val	Pro	Leu	His	Gln	Lys	Gln	Ser	Arg
			20					25					30		

Ile	Thr	Pro	Ile	Gln	Lys	Pro	Arg	Gly	Xaa	Asp	Pro	Val	Glu	Ile	Leu
		35					40					45			

Gln	Glu	Arg	Glu	Tyr	Arg	Leu	Gln	Ala	Arg	Ile	Ala	His	Arg	Ile	Gln
	50					55					60				

Glu	Leu	Glu	Asn	Leu	Pro	Gly	Ser	Leu	Ala	Gly	Asp	Leu	Arg	Thr	Lys
65					70					75					80

Ala	Thr	Ile	Glu	Leu	Lys	Ala	Leu	Arg	Leu	Leu	Asn	Phe	Gln	Arg	Gln
				85					90					95	

Leu	Arg	Gln	Glu	Val	Val	Val	Cys	Met	Arg	Arg	Asp	Thr	Ala	Leu	Glu
		100						105					110		

Thr	Ala	Leu	Asn	Ala	Lys	Ala	Tyr	Lys	Arg	Xaa	Ser	Ala	Ser	Pro	Cys
		115					120					125			

Ala	Arg	Pro	Ala	Ser	Leu	Arg	Ser	Trp	Arg	Ser	Ser	Arg	Arg	Ser	Ser
		130				135					140				

Arg	Ser	Ala	Ser	Ala	Gly	Arg	Ser	Thr	Arg	Asn	Thr	Ser	Ile	Ala	Phe
145					150					155				160	

Ser	Ser	Met	Pro	Arg	Ile	Ser	Arg	Asn	Ile	Thr	Asp	Pro	Ser	Gln	Ala
				165					170					175	

Lys	Ser	Arg	Ser
			180

<210> 437

382

<211> 415
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (94)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (170)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 437
 Arg Lys Tyr Leu Val Pro Leu Xaa Lys Lys Leu Tyr Leu Lys Trp Ala
 1 5 10 15
 Leu Glu Glu Tyr Leu Asp Glu Phe Asp Pro Cys His Cys Arg Pro Cys
 20 25 30
 Gln Asn Gly Gly Leu Ala Thr Val Glu Gly Thr His Cys Leu Cys His
 35 40 45
 Cys Lys Pro Tyr Thr Phe Gly Ala Ala Cys Glu Gln Gly Val Leu Val
 50 55 60
 Gly Asn Gln Ala Gly Gly Val Asp Gly Gly Trp Ser Cys Trp Ser Ser
 65 70 75 80
 Trp Ser Pro Cys Val Gln Gly Lys Lys Thr Arg Ser Arg Xaa Cys Xaa
 85 90 95
 Asn Pro Pro Pro Ser Gly Gly Gly Arg Ser Cys Val Gly Glu Thr Thr
 100 105 110
 Glu Ser Thr Gln Cys Glu Asp Glu Glu Leu Glu His Leu Arg Leu Leu
 115 120 125
 Glu Pro His Cys Phe Pro Leu Ser Leu Val Pro Thr Glu Phe Cys Pro
 130 135 140

383

Ser	Pro	Pro	Ala	Leu	Lys	Asp	Gly	Phe	Val	Gln	Asp	Glu	Gly	Thr	Met	145	150	155	160
Phe	Pro	Val	Gly	Lys	Asn	Val	Val	Tyr	Xaa	Cys	Asn	Glu	Gly	Tyr	Ser	165	170	175	
Leu	Ile	Gly	Asn	Pro	Val	Ala	Arg	Cys	Gly	Glu	Asp	Leu	Arg	Trp	Leu	180	185	190	
Val	Gly	Glu	Met	His	Cys	Gln	Lys	Ile	Ala	Cys	Val	Leu	Pro	Val	Leu	195	200	205	
Met	Asp	Gly	Ile	Gln	Ser	His	Pro	Gln	Lys	Pro	Phe	Tyr	Thr	Val	Gly	210	215	220	
Glu	Lys	Val	Thr	Val	Ser	Cys	Ser	Gly	Gly	Met	Ser	Leu	Glu	Gly	Pro	225	230	235	240
Ser	Ala	Phe	Leu	Cys	Gly	Ser	Ser	Leu	Lys	Trp	Ser	Pro	Glu	Met	Lys	245	250	255	
Asn	Ala	Arg	Cys	Val	Gln	Lys	Glu	Asn	Pro	Leu	Thr	Gln	Ala	Val	Pro	260	265	270	
Lys	Cys	Gln	Arg	Trp	Glu	Lys	Leu	Gln	Asn	Ser	Arg	Cys	Val	Cys	Lys	275	280	285	
Met	Pro	Tyr	Glu	Cys	Gly	Pro	Ser	Leu	Asp	Val	Cys	Ala	Gln	Asp	Glu	290	295	300	
Arg	Ser	Lys	Arg	Ile	Leu	Pro	Leu	Thr	Val	Cys	Lys	Met	His	Val	Leu	305	310	315	320
His	Cys	Gln	Gly	Arg	Asn	Tyr	Thr	Leu	Thr	Gly	Arg	Asp	Ser	Cys	Thr	325	330	335	
Leu	Pro	Ala	Ser	Ala	Glu	Lys	Ala	Cys	Gly	Ala	Cys	Pro	Leu	Trp	Gly	340	345	350	
Lys	Cys	Asp	Ala	Glu	Ser	Ser	Lys	Cys	Val	Cys	Arg	Glu	Ala	Ser	Glu	355	360	365	
Cys	Glu	Glu	Glu	Gly	Phe	Ser	Ile	Cys	Val	Glu	Val	Asn	Gly	Lys	Glu	370	375	380	
Gln	Thr	Met	Ser	Glu	Cys	Glu	Ala	Gly	Ala	Leu	Arg	Cys	Arg	Gly	Gln	385	390	395	400
Ser	Ile	Ser	Val	Thr	Ser	Ile	Arg	Pro	Cys	Ala	Ala	Glu	Thr	Gln		405	410	415	

384

<210> 438
 <211> 285
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 438
 Leu Ile Arg Leu Thr Ile Gly Lys Ala Gly Ser Leu Gln Tyr Arg Xaa
 1 5 10 15
 Xaa Xaa Phe Pro Gly Met Glu Ala Phe Leu Gly Ser Arg Ser Gly Leu
 20 25 30
 Trp Ala Gly Gly Pro Ala Pro Gly Gln Phe Tyr Arg Ile Pro Ser Thr
 35 40 45
 Pro Asp Ser Phe Met Asp Pro Ala Ser Ala Leu Tyr Arg Gly Pro Ile
 50 55 60
 Thr Arg Thr Gln Asn Pro Met Val Thr Gly Thr Ser Val Leu Gly Val
 65 70 75 80
 Lys Phe Glu Gly Gly Val Val Ile Ala Ala Asp Met Leu Gly Ser Tyr
 85 90 95
 Gly Ser Leu Ala Arg Phe Arg Asn Ile Ser Arg Ile Met Arg Val Asn
 100 105 110
 Asn Ser Thr Met Leu Gly Ala Ser Gly Asp Tyr Ala Asp Phe Gln Tyr
 115 120 125
 Leu Lys Gln Val Leu Gly Gln Met Val Ile Asp Glu Glu Leu Leu Gly
 130 135 140

385

Asp Gly His Ser Tyr Ser Pro Arg Ala Ile His Ser Trp Leu Thr Arg
145 150 155 160

Ala Met Tyr Ser Arg Arg Ser Lys Met Asn Pro Leu Trp Asn Thr Met
165 170 175

Val Ile Gly Gly Tyr Ala Asp Gly Glu Ser Phe Leu Gly Tyr Val Asp
180 185 190

Met Leu Gly Val Ala Tyr Glu Ala Pro Ser Leu Ala Thr Gly Tyr Gly
195 200 205

Ala Tyr Leu Ala Gln Pro Leu Leu Arg Glu Val Leu Glu Lys Gln Pro
210 215 220

Val Leu Ser Gln Thr Glu Ala Arg Asp Leu Val Glu Arg Cys Met Arg
225 230 235 240

Val Leu Tyr Tyr Arg Asp Ala Arg Ser Tyr Asn Arg Phe Gln Ile Ala
245 250 255

Thr Val Thr Glu Lys Gly Val Glu Ile Glu Gly Pro Leu Ser Thr Glu
260 265 270

Thr Asn Trp Asp Ile Ala His Met Ile Ser Gly Phe Glu
275 280 285

<210> 439

<211> 185

<212> PRT

<213> Homo sapiens

<400> 439

Asn Ser Ala Ala His Lys Lys Gly Lys Leu Pro Ile Val Asn Glu Asp
1 5 10 15

Asp Glu Leu Val Ala Ile Ile Ala Arg Thr Asp Leu Lys Lys Asn Arg
20 25 30

Asp Tyr Pro Leu Ala Ser Lys Asp Ala Lys Lys Gln Leu Leu Cys Gly
35 40 45

Ala Ala Ile Gly Thr His Glu Asp Asp Lys Tyr Arg Leu Asp Leu Leu
50 55 60

Ala Gln Ala Gly Val Asp Val Val Val Leu Asp Ser Ser Gln Gly Asn
65 70 75 80

Ser Ile Phe Gln Ile Asn Met Ile Lys Tyr Ile Lys Asp Lys Tyr Pro

386

85	90	95
Asn Leu Gln Val Ile Gly Gly Asn Val Val Thr Ala Ala Gln Ala Lys		
100	105	110
Asn Leu Ile Asp Ala Gly Val Asp Ala Leu Arg Val Gly Met Gly Ser		
115	120	125
Gly Ser Ile Cys Ile Thr Gln Glu Val Leu Ala Cys Gly Arg Pro Gln		
130	135	140
Ala Thr Ala Val Tyr Lys Val Ser Glu Tyr Ala Arg Arg Phe Gly Val		
145	150	155
Pro Val Ile Ala Asp Gly Gly Ile Gln Asn Val Gly His Ile Ala Lys		
165	170	175
Ala Leu Ala Leu Gly Ala Pro Gln Ser		
180	185	

<210> 440

<211> 211

<212> PRT

<213> Homo sapiens

<400> 440

Leu Gln Gly Arg Ser Thr Pro Ile Trp Pro Ala Leu Ala Thr Val Thr		
1	5	10
Ser Arg Thr Pro Ala Leu Gly Pro Gln Ala Gly Ile Asp Thr Asn Glu		
20	25	30
Ile Ala Pro Leu Glu Pro Asp Ala Pro Pro Asp Ala Cys Glu Ala Ser		
35	40	45
Phe Asp Ala Val Ser Thr Ile Arg Gly Glu Leu Phe Phe Phe Lys Ala		
50	55	60
Gly Phe Val Trp Arg Leu Arg Gly Gly Gln Leu Gln Pro Gly Tyr Pro		
65	70	75
Ala Leu Ala Ser Arg His Trp Gln Gly Leu Pro Ser Pro Val Asp Ala		
85	90	95
Ala Phe Glu Asp Ala Gln Gly His Ile Trp Phe Phe Gln Gly Ala Gln		
100	105	110
Tyr Trp Val Tyr Asp Gly Glu Lys Pro Val Leu Gly Pro Ala Pro Leu		
115	120	125

387

Thr Glu Leu Gly Leu Val Arg Phe Pro Val His Ala Ala Leu Val Trp
 130 135 140

Gly Pro Glu Lys Asn Lys Ile Tyr Phe Phe Arg Gly Arg Asp Tyr Trp
 145 150 155 160

Arg Phe His Pro Ser Thr Arg Arg Val Asp Ser Pro Val Pro Arg Arg
 165 170 175

Pro Leu Thr Gly Glu Gly Cys Pro Leu Arg Ser Thr Leu Pro Ser Arg
 180 185 190

Met Leu Met Ala Met Pro Thr Ser Cys Ala Ala Ala Ser Thr Gly Ser
 195 200 205

Leu Thr Leu
 210

<210> 441

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 441

Gly Gly Ala Gly Lys Leu Leu Ser Phe Thr His Ser Ala Pro Trp Ser
 1 5 10 15

Arg Leu Trp Ser Ser Leu Gly Lys Arg Val Thr Gly Glu Ser Gln Gly
 20 25 30

Leu Glu Lys Leu Pro Gly Thr Xaa Asp Gly Leu Ala Ala Leu Thr Gln
 35 40 45

Asp Pro Leu Pro Leu Pro Pro Pro Leu Cys Arg Asn Thr Gly Thr Pro
 50 55 60

Arg Gly Lys Met Ser Phe Ser Arg Leu Gln Phe Ser Pro Arg Lys Leu
 65 70 75 80

388

<210> 442
<211> 567
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (205)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (212)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (469)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (503)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (505)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (517)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (535)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (546)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 442
Asn Val His Leu Tyr Ile Met Tyr Tyr Met Glu Ala Lys His Ala Val
1 5 10 15

Ser Phe Met Thr Cys Thr Gln Asn Val Ala Pro Asp Met Phe Arg Thr

389

20	25	30
Ile Pro Pro Glu Ala Asn Ile Pro Ile Pro Val Lys Ser Asp Met Val		
35	40	45
Met Met His Glu His His Lys Glu Thr Glu Tyr Lys Asp Lys Ile Pro		
50	55	60
Leu Leu Gln Gln Pro Lys Arg Glu Glu Glu Glu Val Leu Asp Gln Gly		
65	70	75
Asp Phe Tyr Ser Leu Leu Ser Lys Leu Leu Gly Glu Arg Glu Asp Val		
85	90	95
Val His Val His Lys Tyr Asn Pro Thr Glu Lys Ala Glu Ser Glu Ser		
100	105	110
Asp Leu Val Ala Glu Ile Ala Asn Val Val Gln Lys Lys Asp Leu Gly		
115	120	125
Arg Ser Asp Ala Arg Glu Gly Ala Glu His Glu Arg Gly Asn Ala Ile		
130	135	140
Leu Val Arg Asp Arg Ile His Lys Phe His Arg Leu Val Ser Thr Leu		
145	150	155
Arg Pro Pro Glu Ser Arg Val Phe Ser Leu Gln Gln Pro Pro Pro Gly		
165	170	175
Glu Gly Thr Trp Glu Pro Glu His Thr Gly Asp Phe His Met Glu Glu		
180	185	190
Ala Leu Asp Trp Pro Gly Val Tyr Leu Leu Pro Gly Xaa Val Ser Gly		
195	200	205
Val Ala Leu Xaa Pro Lys Asn Asn Leu Val Ile Phe His Arg Gly Asp		
210	215	220
His Val Trp Asp Gly Asn Ser Phe Asp Ser Lys Phe Val Tyr Gln Gln		
225	230	235
Ile Gly Leu Gly Pro Ile Glu Glu Asp Thr Ile Leu Val Ile Asp Pro		
245	250	255
Asn Asn Ala Ala Val Leu Gln Ser Ser Gly Lys Asn Leu Phe Tyr Leu		
260	265	270
Pro His Gly Leu Ser Ile Asp Lys Asp Gly Asn Tyr Trp Val Thr Asp		
275	280	285
Val Ala Leu His Gln Val Phe Lys Leu Asp Pro Asn Asn Lys Glu Gly		

390

290	295	300
Pro Val Leu Ile Leu Gly Arg Ser Met Gln Pro Gly Ser Asp Gln Asn		
305	310	315 320
His Phe Cys Gln Pro Thr Asp Val Ala Val Asp Pro Gly Thr Gly Ala		
	325	330 335
Ile Tyr Val Ser Asp Gly Tyr Cys Asn Ser Arg Ile Val Gln Phe Ser		
	340	345 350
Pro Ser Gly Lys Phe Ile Thr Gln Trp Gly Glu Glu Ser Ser Gly Ser		
	355	360 365
Ser Pro Leu Pro Gly Gln Phe Thr Val Pro His Ser Leu Ala Leu Val		
	370	375 380
Pro Leu Leu Gly Gln Leu Cys Val Ala Asp Arg Glu Asn Gly Arg Ile		
385	390	395 400
Gln Cys Phe Lys Thr Asp Thr Lys Glu Phe Val Arg Glu Ile Lys His		
	405	410 415
Ser Ser Phe Gly Arg Asn Val Phe Ala Ile Ser Tyr Ile Pro Gly Leu		
	420	425 430
Leu Phe Ala Val Asn Gly Lys Pro His Phe Gly Asp Gln Glu Pro Val		
	435	440 445
Gln Gly Phe Val Met Asn Phe Ser Asn Gly Glu Ile Ile Asp Ile Phe		
450	455	460
Lys Pro Val Arg Xaa Leu Leu Asp Met Pro His Asp Ile Val Ala Ser		
465	470	475 480
Glu Asp Gly Thr Val Tyr Ile Gly Arg Cys Ser Tyr Gln His Arg Val		
	485	490 495
Gly Ser Ser Thr Leu Asp Xaa Arg Xaa Leu Gly Thr Ser Val Gln Phe		
	500	505 510
Lys Lys Gly Leu Xaa Ile Glu Val Gln Gly Asn Pro Lys Lys Pro Glu		
	515	520 525
Gly Ile Cys Cys Phe Pro Xaa Thr Thr Leu Arg Val Ile Pro Val Val		
	530	535 540
Gly Xaa Trp Arg Gly His Gly Pro Asn Leu Ile Pro Val Gly Lys Asn		
545	550	555 560
Pro Arg Gly Pro Leu Gly Arg		

391

565

<210> 443

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 443

Arg	Pro	Ser	Cys	Ser	Pro	Gly	Ser	Val	Ser	Ala	Ala	Ala	Val	Asn	Met
1				5					10					15	

Glu	Pro	Pro	Asp	Ala	Pro	Ala	Gln	Ala	Arg	Gly	Ala	Pro	Arg	Leu	Leu
			20				25						30		

Leu	Leu	Ala	Val	Leu	Leu	Ala	Ala	His	Pro	Asp	Ala	Gln	Ala	Glu	Val
		35					40					45			

Arg	Leu	Ser	Val	Pro	Pro	Leu	Val	Glu	Val	Met	Arg	Gly	Lys	Ser	Val
	50					55				60					

Ile	Leu	Asp	Cys	Thr	Pro	Thr	Gly	Thr	His	Asp	His	Tyr	Met	Leu	Glu
65					70					75				80	

Trp	Phe	Leu	Thr	Asp	Arg	Ser	Gly	Ala	Arg	Pro	Arg	Leu	Ala	Ser	Ala
				85					90					95	

Glu	Met	Gln	Gly	Ser	Glu	Leu	Gln	Val	Thr	Met	His	Asp	Thr	Arg	Gly
		100					105						110		

Arg	Ser	Pro	Pro	Tyr	Gln	Leu	Gly	Leu	Pro	Xaa	Gly	Ala	Trp	Xaa	Leu
		115					120						125		

Xaa

392

<210> 444

<211> 131

<212> PRT

<213> Homo sapiens

<400> 444

Glu Pro Arg Val Glu Arg Glu Thr Pro Gly Gln Pro Phe Ser Ser Ser
 1 5 10 15

Phe Pro Ser Pro Ser Pro Phe Pro Asn Val Ala Ser Met Trp Val Leu
 20 25 30

Gly Thr Trp Glu Lys Pro Leu Leu Cys His Phe Phe Ser Leu Phe Pro
 35 40 45

Ser Ser Pro Pro Thr Val Trp Leu Met Met Ser Ser Gly Val Met Val
 50 55 60

Thr Thr Pro Cys Ser Leu Phe Trp Tyr Phe Pro Cys Gln Phe Pro Leu
 65 70 75 80

Ser Ala Arg Leu Cys Pro Lys Ile Pro Ser Ala Ser Ser Leu His Val
 85 90 95

Ala Glu Gly Pro Gly Leu Pro Gln Val Pro Cys Leu Ser Asn Lys Val
 100 105 110

Glu Thr Ile Lys Pro Gly Lys Lys Lys Lys Gly Gly Arg Ser Lys Gly
 115 120 125

Ser Pro Arg
 130

<210> 445

<211> 405

<212> PRT

<213> Homo sapiens

<400> 445

Gly Thr Gly Leu Val Pro Ile Arg Gln Ser Thr Lys Phe Asp Ser Ser
 1 5 10 15

Leu Asp Arg Lys Asp Lys Phe Ser Phe Asp Leu Gly Lys Gly Glu Val
 20 25 30

Ile Lys Ala Trp Asp Ile Ala Ile Ala Thr Met Lys Val Gly Glu Val

393

35	40	45
Cys His Ile Thr Cys Lys Pro Glu Tyr Ala Tyr Gly Ser Ala Gly Ser		
50	55	60
Pro Pro Lys Ile Pro Pro Asn Ala Thr Leu Val Phe Glu Val Glu Leu		
65	70	75 80
Phe Glu Phe Lys Gly Glu Asp Leu Thr Glu Glu Glu Asp Gly Gly Ile		
	85	90 95
Ile Arg Arg Ile Gln Thr Arg Gly Glu Gly Tyr Ala Lys Pro Asn Glu		
	100	105 110
Gly Ala Ile Val Glu Val Ala Leu Glu Gly Tyr Tyr Lys Asp Lys Leu		
	115	120 125
Phe Asp Gln Arg Glu Leu Arg Phe Glu Ile Gly Glu Gly Glu Asn Leu		
	130	135 140
Asp Leu Pro Tyr Gly Leu Glu Arg Ala Ile Gln Arg Met Glu Lys Gly		
	145	150 155 160
Glu His Ser Ile Val Tyr Leu Lys Pro Ser Tyr Ala Phe Gly Ser Val		
	165	170 175
Gly Lys Glu Lys Phe Gln Ile Pro Pro Asn Ala Glu Leu Lys Tyr Glu		
	180	185 190
Leu His Leu Lys Ser Phe Glu Lys Ala Lys Glu Ser Trp Glu Met Asn		
	195	200 205
Ser Glu Glu Lys Leu Glu Gln Ser Thr Ile Val Lys Glu Arg Gly Thr		
	210	215 220
Val Tyr Phe Lys Glu Gly Lys Tyr Lys Gln Ala Leu Leu Gln Tyr Lys		
	225	230 235 240
Lys Ile Val Ser Trp Leu Glu Tyr Glu Ser Ser Phe Ser Asn Glu Glu		
	245	250 255
Ala Gln Lys Ala Gln Ala Leu Arg Leu Ala Ser His Leu Asn Leu Ala		
	260	265 270
Met Cys His Leu Lys Leu Gln Ala Phe Ser Ala Ala Ile Glu Ser Cys		
	275	280 285
Asn Lys Ala Leu Glu Leu Asp Ser Asn Asn Glu Lys Gly Leu Phe Arg		
	290	295 300
Arg Gly Glu Ala His Leu Ala Val Asn Asp Phe Glu Leu Ala Arg Ala		

394

305 310 315 320
 Asp Phe Gln Lys Val Leu Gln Leu Tyr Pro Asn Asn Lys Ala Ala Lys
 325 330 335
 Thr Gln Leu Ala Val Cys Gln Gln Arg Ile Arg Arg Gln Leu Ala Arg
 340 345 350
 Glu Lys Lys Leu Tyr Ala Asn Met Phe Glu Arg Leu Ala Glu Glu Glu
 355 360 365
 Asn Lys Ala Lys Ala Glu Ala Ser Ser Gly Asp His Pro Thr Asp Thr
 370 375 380
 Glu Met Lys Glu Glu Gln Lys Ser Asn Thr Ala Gly Ser Gln Ser Gln
 385 390 395 400
 Val Glu Thr Glu Ala
 405

<210> 446

<211> 232

<212> PRT

<213> Homo sapiens

<400> 446

Pro Leu Val Pro Ser Ser Gln Lys Ala Leu Leu Leu Glu Leu Lys Gly
 1 5 10 15
 Leu Gln Glu Glu Pro Val Glu Gly Phe Arg Val Thr Leu Val Asp Glu
 20 25 30
 Gly Asp Leu Tyr Asn Trp Glu Val Ala Ile Phe Gly Pro Pro Asn Thr
 35 40 45
 Tyr Tyr Glu Gly Gly Tyr Phe Lys Ala Arg Leu Lys Phe Pro Ile Asp
 50 55 60
 Tyr Pro Tyr Ser Pro Pro Ala Phe Arg Phe Leu Thr Lys Met Trp His
 65 70 75 80
 Pro Asn Ile Tyr Glu Thr Gly Asp Val Cys Ile Ser Ile Leu His Pro
 85 90 95
 Pro Val Asp Asp Pro Gln Ser Gly Glu Leu Pro Ser Glu Arg Trp Asn
 100 105 110
 Pro Thr Gln Asn Val Arg Thr Ile Leu Leu Ser Val Ile Ser Leu Leu
 115 120 125

395

Asn Glu Pro Asn Thr Phe Ser Pro Ala Asn Val Asp Ala Ser Val Met
130 135 140

Tyr Arg Lys Trp Lys Glu Ser Lys Gly Lys Asp Arg Glu Tyr Thr Asp
145 150 155 160

Ile Ile Arg Lys Gln Val Leu Gly Thr Arg Trp Thr Arg Val Asn Gly
165 170 175

Val Lys Val Pro Thr Thr Leu Ala Glu Tyr Cys Val Lys Thr Lys Ala
180 185 190

Pro Ala Pro Asp Glu Gly Ser Asp Leu Phe Tyr Asp Asp Tyr Tyr Glu
195 200 205

Asp Gly Glu Val Glu Glu Glu Ala Asp Ser Cys Phe Gly Asp Asp Glu
210 215 220

Asp Asp Ser Gly Thr Glu Glu Ser
225 230

<210> 447

<211> 356

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 447

Cys Ser Pro Pro Pro Pro Pro Ala Ala Ala Ala Xaa Ala Ala Ala Ala

396

1	5	10	15
Ala Met Ala Gln Tyr Lys Gly Ala Ala Ser Glu Ala Gly Arg Ala Met	20	25	30
His Leu Met Lys Lys Arg Glu Lys Gln Arg Glu Gln Met Glu Gln Met	35	40	45
Lys Gln Arg Ile Xaa Glu Glu Asn Ile Met Lys Ser Asn Ile Asp Lys	50	55	60
Lys Phe Ser Ala His Tyr Asp Ala Val Glu Ala Glu Leu Lys Ser Ser	65	70	75
Thr Val Gly Leu Val Thr Leu Asn Asp Met Lys Ala Lys Gln Glu Ala	85	90	95
Leu Val Lys Glu Arg Glu Lys Gln Leu Ala Lys Lys Glu Gln Ser Lys	100	105	110
Glu Leu Gln Met Lys Leu Glu Lys Leu Arg Glu Lys Glu Arg Lys Lys	115	120	125
Glu Ala Lys Arg Lys Ile Ser Ser Leu Ser Phe Thr Leu Glu Glu Glu	130	135	140
Glu Glu Gly Gly Glu Glu Glu Glu Glu Ala Ala Met Tyr Glu Glu Glu	145	150	155
Met Glu Arg Glu Glu Ile Thr Thr Lys Lys Arg Lys Leu Gly Lys Asn	165	170	175
Pro Asp Val Asp Thr Ser Phe Leu Pro Asp Arg Asp Arg Glu Xaa Glu	180	185	190
Glu Asn Arg Leu Arg Glu Glu Leu Arg Gln Glu Trp Glu Ala Lys Gln	195	200	205
Glu Lys Ile Lys Ser Glu Glu Ile Glu Ile Thr Phe Ser Tyr Trp Asp	210	215	220
Gly Ser Gly His Arg Arg Thr Val Lys Met Arg Lys Gly Asn Thr Met	225	230	235
Gln Gln Phe Leu Gln Lys Ala Leu Glu Ile Leu Arg Lys Asp Phe Ser	245	250	255
Glu Leu Arg Ser Ala Gly Xaa Glu Gln Leu Met Tyr Ile Lys Glu Asp	260	265	270
Leu Ile Ile Pro His His His Ser Phe Tyr Asp Phe Ile Val Thr Lys			

397

275 280 285
 Ala Arg Gly Lys Ser Gly Pro Leu Phe Asn Phe Asp Val His Asp Asp
 290 295 300
 Val Arg Leu Leu Ser Asp Ala Thr Val Glu Lys Asp Glu Ser His Ala
 305 310 315 320
 Gly Lys Val Val Leu Arg Ser Trp Tyr Glu Lys Asn Lys His Ile Phe
 325 330 335
 Pro Ala Ser Arg Trp Glu Pro Tyr Asp Pro Glu Lys Lys Trp Asp Lys
 340 345 350
 Tyr Thr Ile Arg
 355

<210> 448
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 448
 Lys Thr His Lys Met Cys Asp Ala Phe Val Gly Thr Trp Lys Leu Val
 1 5 10 15
 Ser Ser Glu Asn Phe Asp Asp Tyr Met Lys Glu Val Gly Val Gly Phe
 20 25 30
 Ala Thr Arg Lys Val Ala Gly Met Ala Lys Pro Asn Met Ile Ile Ser
 35 40 45
 Val Asn Gly Asp Val Ile Thr Ile Lys Ser Glu Ser Thr Phe Lys Asn
 50 55 60
 Thr Glu Ile Ser Phe Ile Leu Gly Gln Glu Phe Asp Glu Ala Leu Gln
 65 70 75 80
 Met Thr Gly Lys Ser Arg Ala Pro
 85

<210> 449
 <211> 171
 <212> PRT
 <213> Homo sapiens

<220>

398

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (132)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 449

Leu	Ile	Leu	Val	Leu	Met	Phe	Val	Val	Trp	Met	Lys	Arg	Arg	Asp	Lys
1				5					10					15	

Glu	Arg	Gln	Ala	Lys	Gln	Leu	Leu	Ile	Asp	Pro	Glu	Asp	Asp	Val	Arg
			20					25						30	

Asp	Asn	Ile	Leu	Lys	Tyr	Asp	Glu	Glu	Gly	Gly	Gly	Glu	Glu	Asp	Gln
		35					40					45			

Asp	Tyr	Asp	Leu	Ser	Gln	Leu	Gln	Gln	Pro	Asp	Thr	Val	Glu	Pro	Asp
	50					55					60				

Ala	Ile	Lys	Pro	Val	Gly	Ile	Xaa	Arg	Met	Asp	Glu	Arg	Pro	Ile	His
65					70					75				80	

Ala	Glu	Pro	Gln	Tyr	Pro	Val	Arg	Ser	Ala	Ala	Pro	His	Pro	Gly	Asp
			85						90					95	

Ile	Gly	Asp	Phe	Ile	Asn	Glu	Gly	Leu	Lys	Ala	Ala	Asp	Asn	Asp	Pro
			100					105					110		

Thr	Ala	Pro	Pro	Tyr	Asp	Ser	Leu	Leu	Val	Phe	Asp	Tyr	Glu	Gly	Ser
	115						120					125			

Gly	Ser	Thr	Xaa	Gly	Ser	Leu	Ser	Ser	Leu	Asn	Ser	Ser	Ser	Ser	Gly
	130					135					140				

Gly	Glu	Gln	Asp	Tyr	Asp	Tyr	Leu	Asn	Asp	Trp	Gly	Pro	Arg	Phe	Lys
145					150					155				160	

Lys	Leu	Ala	Asp	Met	Tyr	Gly	Gly	Gly	Asp	Asp
			165						170	

<210> 450

<211> 34

<212> PRT

<213> Homo sapiens

<400> 450

399

Lys Val Lys Ala Cys Cys Lys Asp Ile Phe Phe Leu Leu Leu Glu Gly
 1 5 10 15

Asn Thr Lys Arg Lys Ile Ser Phe Phe His Gly Ala Phe Asp Asn Phe
 20 25 30

Ser Leu

<210> 451

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 451

Arg Thr Leu His Pro Ala Thr Gly Pro Arg Ala Arg Pro Pro Arg Gly
 1 5 10 15

Trp Arg Arg Arg Leu Cys Ala Gln Gly Pro Ala Pro Asp Trp Asp Pro
 20 25 30

Gly Val Pro Pro Gly Leu Ala Ser Cys Gly Xaa Thr Val Trp Leu His
 35 40 45

Phe Ser Asp Pro Ser Leu Gly Arg Lys Val Lys Glu Thr Gly Pro Ala
 50 55 60

Ser Ala Phe Gly Leu Trp Phe Leu Asp Arg Val Leu Ser Pro Ser Pro
 65 70 75 80

Pro Ser Ser Pro Asn Leu Ser His Xaa Arg Pro Leu Pro Ala Ala Pro
 85 90 95

Ser Leu Leu Gly Ile Gly Ser Pro Glu Pro Pro Ser Pro Glu Pro Pro
 100 105 110

Thr Pro Leu Pro Gly Pro Cys Gly Cys Trp Ala Ser His Leu Lys Glu
 115 120 125

400

Gly Lys Val Val Gln Pro Glu Pro Val Glu Gln Cys Pro Val Trp Pro
 130 135 140

Pro Lys Pro Lys
 145

<210> 452

<211> 83

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 452

Asp Ser His Arg Pro Arg Ala Met Arg Ala Leu Trp Val Leu Gly Leu
 1 5 10 15

Ser Cys Xaa Leu Leu Thr Phe Gly Ser Val Arg Xaa Asp Asp Glu Val
 20 25 30

Asp Val Asp Gly Thr Val Glu Glu Asp Leu Gly Lys Ser Arg Glu Gly
 35 40 45

Ser Arg Thr Asp Asp Glu Val Val Gln Arg Glu Glu Glu Ala Ile Xaa
 50 55 60

401

Val Gly Trp Ile Lys Cys Ile Pro Asn Lys Arg Thr Xaa Glu Xaa Lys
 65 70 75 80

Ser Arg Lys

<210> 453

<211> 240

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 453

Gly Trp Leu Pro Cys Gly Ser Ser Val Val Pro Ala Thr Pro Gly Ser
 1 5 10 15

Pro Pro Ser Arg Phe Trp Leu Leu Pro Ala Met Ala Leu Arg Val Leu
 20 25 30

Leu Leu Thr Ala Leu Thr Leu Cys His Gly Phe Asn Leu Asp Thr Glu
 35 40 45

Asn Ala Met Thr Phe Gln Glu Asn Ala Arg Gly Phe Gly Gln Ser Val
 50 55 60

Val Gln Leu Gln Gly Ser Arg Val Val Val Gly Ala Pro Gln Glu Ile
 65 70 75 80

Val Ala Ala Asn Gln Arg Gly Ser Leu Tyr Gln Cys Asp Tyr Ser Thr
 85 90 95

Gly Ser Cys Glu Pro Ile His Leu Gln Val Pro Val Glu Ala Val Asn
 100 105 110

Met Ser Leu Gly Leu Ser Leu Ala Ala Thr Thr Ser Pro Pro Gln Leu
 115 120 125

Leu Ala Cys Gly Pro Thr Val His Gln Thr Cys Ser Glu Asn Thr Tyr
 130 135 140

Val Lys Gly Leu Cys Phe Leu Phe Gly Ser Asn Leu Arg Gln Gln Pro
 145 150 155 160

Gln Lys Phe Pro Glu Ala Leu Arg Gly Cys Pro Gln Glu Asp Ser Asp
 165 170 175

402

Ile	Ala	Phe	Leu	Ile	Asp	Gly	Ser	Gly	Ser	Ile	Ile	Pro	His	Asp	Phe
			180					185					190		
Arg	Arg	Met	Lys	Glu	Phe	Val	Ser	Thr	Val	Met	Glu	Gln	Leu	Lys	Lys
			195					200				205			
Ser	Lys	Thr	Leu	Phe	Ser	Leu	Met	Gln	Tyr	Ser	Glu	Glu	Phe	Arg	Ile
			210				215					220			
His	Phe	Thr	Ser	Lys	Ser	Ser	Arg	Thr	Xaa	Leu	Thr	Gln	Asp	His	Trp
225					230					235					240

<210> 454

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (206)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (227)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (229)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (239)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 454

Lys	Trp	Cys	Ser	Trp	Thr	Leu	Leu	Lys	Ile	Trp	Glu	Val	Thr	Cys	Thr
1					5				10					15	

Trp	Lys	Leu	Pro	Thr	Leu	Ala	Lys	Phe	Ser	Pro	Tyr	Leu	Gly	Gln	Met
			20					25					30		

Ile	Asn	Leu	Arg	Arg	Leu	Leu	Leu	Ser	His	Ile	His	Ala	Ser	Ser	Tyr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

403

35	40	45
Ile Ser Pro Glu Lys Glu Glu Gln Tyr Ile Ala Gln Phe Thr Ser Gln		
50	55	60
Phe Leu Ser Leu Gln Cys Leu Gln Leu Leu Tyr Val Asp Ser Leu Phe		
65	70	75 80
Phe Leu Arg Gly Arg Leu Asp Gln Leu Leu Arg His Val Met Asn Pro		
	85	90 95
Leu Glu Thr Leu Ser Ile Thr Asn Cys Arg Leu Ser Glu Gly Asp Val		
	100	105 110
Met His Leu Ser Gln Ser Pro Ser Val Ser Gln Leu Ser Val Leu Ser		
	115	120 125
Leu Ser Gly Val Met Leu Thr Asp Val Ser Pro Glu Pro Leu Gln Ala		
	130	135 140
Leu Leu Glu Arg Ala Ser Ala Thr Leu Gln Asp Leu Val Phe Asp Glu		
145	150	155 160
Cys Gly Ile Thr Asp Asp Gln Leu Leu Ala Leu Leu Pro Ser Leu Ser		
	165	170 175
His Cys Ser Gln Leu Thr Thr Leu Ser Phe Tyr Gly Asn Ser Ile Ser		
	180	185 190
Ile Ser Ala Leu Gln Ser Leu Leu Gln His Leu Ile Gly Xaa Ser Asn		
	195	200 205
Leu Thr His Val Leu Tyr Pro Val Pro Leu Glu Ser Tyr Glu Asp Ile		
	210	215 220
His Gly Xaa Leu Xaa Leu Glu Arg Leu Leu Ser Ala Cys Gln Xaa Gln		
225	230	235 240
Gly Val Ala Val		

<210> 455

<211> 195

<212> PRT

<213> Homo sapiens

<400> 455

His Glu Gly Thr Gln Ser Phe Val Phe Gln Arg Glu Glu Ile Ala Gln
1 5 10 15

404

Leu Ala Arg Gln Tyr Ala Gly Leu Asp His Glu Leu Ala Phe Ser Arg
 20 25 30
 Leu Ile Val Glu Leu Arg Arg Leu His Pro Gly His Val Leu Pro Asp
 35 40 45
 Glu Glu Leu Gln Trp Val Phe Val Asn Ala Gly Gly Trp Met Gly Ala
 50 55 60
 Met Cys Leu Leu His Ala Ser Leu Ser Glu Tyr Val Leu Leu Phe Gly
 65 70 75 80
 Thr Ala Leu Gly Ser Arg Gly His Ser Gly Arg Tyr Trp Ala Glu Ile
 85 90 95
 Ser Asp Thr Ile Ile Ser Gly Thr Phe His Gln Trp Arg Glu Gly Thr
 100 105 110
 Thr Lys Ser Glu Val Phe Tyr Pro Gly Glu Thr Val Val His Gly Pro
 115 120 125
 Gly Glu Ala Thr Ala Val Glu Trp Gly Pro Asn Thr Trp Met Val Glu
 130 135 140
 Tyr Gly Arg Gly Val Ile Pro Ser Thr Leu Ala Phe Ala Leu Ala Asp
 145 150 155 160
 Thr Val Phe Ser Thr Gln Asp Phe Leu Thr Leu Phe Tyr Thr Leu Arg
 165 170 175
 Ser Tyr Ala Arg Gly Leu Arg Leu Glu Leu Thr Thr Tyr Leu Phe Gly
 180 185 190
 Gln Asp Pro
 195

<210> 456

<211> 36

<212> PRT

<213> Homo sapiens

<400> 456

Leu Val Thr Leu Leu His Ala Met Gln Ala Arg Asp Lys Thr Leu Gly
 1 5 10 15
 Leu Ala Thr Leu Cys Ile Gly Gly Gly Gln Gly Ile Ala Met Val Ile
 20 25 30

405

Glu Arg Leu Asn
35

<210> 457
<211> 152
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 457
Val Thr Ala Ala Ser Val Arg Ala Leu Gln Val Thr Val Ala Gly
1 5 10 15
Leu Leu Leu Val Phe Phe Leu Phe Gly Ala Pro Leu Asp Ser Leu Pro
20 25 30
Ser Met Lys Ala Leu Ser Pro Val Arg Gly Cys Tyr Glu Ala Val Cys
35 40 45
Cys Leu Ser Glu Arg Ser Leu Ala Ile Ala Arg Gly Arg Gly Lys Gly
50 55 60
Pro Ala Ala Glu Glu Pro Leu Ser Leu Leu Asp Asp Met Asn His Cys
65 70 75 80
Tyr Ser Arg Leu Arg Xaa Leu Val Pro Gly Val Pro Arg Gly Thr Gln
85 90 95
Leu Ser Gln Val Glu Ile Leu Gln Arg Val Ile Asp Tyr Ile Leu Asp
100 105 110
Leu Xaa Val Val Leu Ala Glu Pro Ala Pro Gly Pro Pro Asp Gly Pro
115 120 125
His Leu Pro Ile Gln Thr Ala Glu Leu Ala Pro Glu Leu Val Ile Ser
130 135 140
Asn Asp Lys Arg Ser Phe Cys His
145 150

406

<210> 458
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 458
Leu Leu Asn Asn Phe Ile Phe Leu Glu Thr His Tyr Leu Trp Ala Cys
1 5 10 15
Xaa Thr Trp Thr Ile Trp Pro Asn Xaa Leu Asp Lys Lys Gly Xaa
20 25 30

<210> 459
<211> 157
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (72)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

407

<220>

<221> SITE

<222> (130)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 459

Asp Pro Arg Val Arg Glu Thr Thr Val Lys Ala Arg Ala Arg Ser Gln
 1 5 10 15

His Ala Gly Gly Pro Glu Leu Gly Leu Ser Gln Xaa Tyr Val Thr Pro
 20 25 30

Arg Arg Pro Phe Glu Lys Ser Arg Leu Asp Gln Glu Leu Lys Leu Ile
 35 40 45

Gly Glu Tyr Gly Leu Arg Asn Lys Arg Glu Val Trp Arg Val Lys Phe
 50 55 60

Thr Leu Ala Lys Ile Arg Lys Xaa Ala Arg Glu Leu Leu Thr Leu Asp
 65 70 75 80

Glu Lys Asp Pro Arg Arg Leu Phe Glu Gly Asn Ala Leu Leu Arg Arg
 85 90 95

Leu Val Arg Ile Gly Val Leu Asp Glu Gly Lys Met Lys Leu Asp Tyr
 100 105 110

Ile Leu Gly Leu Lys Met Arg Ile Leu Gly Glu Xaa Ser Ala Asp Pro
 115 120 125

Gly Xaa Ser Ser Trp Gly Trp Pro Ile His Pro Pro Cys Pro Val Leu
 130 135 140

Ile Arg Gln Ala Thr Gln Val Arg Lys Gln Val Val Asn
 145 150 155

<210> 460

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (119)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (130)

408

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 460

Ile Trp Ala Pro Phe Pro His His Gln Gly Ser Gly Ser Gln Val Ser
1 5 10 15

Ser Tyr Gly Thr Gly Ala Leu Lys Ser His Ile Met Ala Ala Lys Ala
20 25 30

Val Ala Asn Thr Met Arg Thr Ser Leu Gly Pro Asn Gly Leu Asp Lys
35 40 45

Met Met Val Asp Lys Asp Gly Asp Val Thr Val Thr Asn Asp Gly Ala
50 55 60

Thr Ile Leu Ser Met Met Asp Val Asp His Gln Ile Ala Lys Leu Met
65 70 75 80

Val Glu Leu Ser Lys Ser Gln Asp Asp Glu Ile Gly Asp Gly Asp His
85 90 95

Gly Gly Gly Cys Pro Gly Arg Arg Pro Ala Gly Arg Arg Pro Ser Ser
100 105 110

Cys Trp Thr Ala Ala Phe Xaa Arg Ser Gly Ser Pro Thr Val Thr Ser
115 120 125

Arg Xaa Pro Ala Leu Ala Xaa Glu
130 135

<210> 461

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

409

<220>
 <221> SITE
 <222> (375)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (382)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (383)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (386)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (387)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 461
 Cys Gly Asn Trp Trp Val Pro Arg Ala Gly Xaa Asn Trp Xaa Arg Gly
 1 5 10 15
 Ser Arg Phe Leu Phe Val Asp Arg Cys Asp Arg His Leu Thr Met Gln
 20 25 30
 Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu
 35 40 45
 Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp Lys Glu
 50 55 60
 Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys Gln Leu
 65 70 75 80
 Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr
 85 90 95
 Leu His Leu Val Leu Arg Leu Arg Gly Gly Met Gln Ile Phe Val Lys
 100 105 110
 Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu Pro Ser Asp Thr
 115 120 125

410

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Ile Glu Asn Val Lys Ala Lys Ile Gln Asp Lys Glu Gly Ile Pro Pro
  130                      135                      140

Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg
 145                      150                      155                      160

Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val
      165                      170                      175

Leu Arg Leu Arg Gly Gly Met Gln Ile Phe Val Lys Thr Leu Thr Gly
      180                      185                      190

Lys Thr Ile Thr Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val
      195                      200                      205

Lys Ala Lys Ile Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg
      210                      215                      220

Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp
 225                      230                      235                      240

Tyr Asn Ile Gln Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg
      245                      250                      255

Gly Gly Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr
      260                      265                      270

Leu Glu Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile
      275                      280                      285

Gln Asp Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala
      290                      295                      300

Gly Lys Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln
 305                      310                      315                      320

Lys Glu Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly Met Gln
      325                      330                      335

Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu
      340                      345                      350

Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Arg Ser Arg Gln Gly Arg
      355                      360                      365

His Pro Pro Asp Gln Gln Xaa Leu Ile Leu Leu Gly Lys Xaa Xaa Lys
      370                      375                      380

Trp Xaa Xaa Pro Phe Asp
 385                      390

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411

<210> 462
 <211> 171
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (74)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (135)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (142)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (155)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 462
 Cys Ser Thr Val Arg Ile Pro Gly Ser Thr His Ala Ser Gly Leu Ser
 1 5 10 15
 Arg Arg Ala Ser Pro Val Tyr Leu Ala Ser Met Ser Gly Arg Gly Lys
 20 25 30
 Thr Gly Gly Lys Ala Arg Ala Lys Ala Lys Ser Arg Ser Ser Arg Ala
 35 40 45
 Gly Leu Gln Phe Pro Val Gly Arg Val His Arg Leu Leu Arg Lys Gly
 50 55 60
 His Tyr Ala Glu Arg Val Gly Ala Gly Xaa Pro Val Tyr Leu Ala Ala
 65 70 75 80
 Val Leu Glu Tyr Leu Thr Ala Glu Ile Leu Glu Leu Ala Gly Asn Ala
 85 90 95
 Ala Arg Asp Asn Lys Lys Thr Arg Ile Ile Pro Arg His Leu Gln Leu
 100 105 110
 Ala Ile Arg Asn Asp Glu Glu Leu Asn Lys Leu Leu Gly Gly Val Thr
 115 120 125

412

Ile Ala Gln Gly Arg Arg Xaa Ala Gln His Pro Gly Arg Xaa Cys Cys
 130 135 140

Pro Arg Arg Pro Ala Pro Pro Trp Gly Arg Xaa Pro Phe Gly Gly Gln
 145 150 155 160

Glu Arg Ala Thr Lys Ala Ser Gln Gly Val Leu
 165 170

<210> 463

<211> 433

<212> PRT

<213> Homo sapiens

<400> 463

Arg Val Arg Ala Pro Pro Arg Pro Pro Leu Gly Pro Ser Arg Pro Ser
 1 5 10 15

His His Val His Pro Leu Gln Leu Pro Gly Ile Arg Glu Val Thr Ile
 20 25 30

Asn Gln Ser Leu Leu Ala Pro Leu Arg Leu Asp Ala Asp Pro Ser Leu
 35 40 45

Gln Arg Val Arg Gln Glu Glu Ser Glu Gln Ile Lys Thr Leu Asn Asn
 50 55 60

Lys Phe Ala Ser Phe Ile Asp Lys Val Arg Phe Leu Glu Gln Gln Asn
 65 70 75 80

Lys Leu Leu Glu Thr Lys Trp Thr Leu Leu Gln Glu Gln Lys Ser Ala
 85 90 95

Lys Ser Ser Arg Leu Pro Asp Ile Phe Glu Ala Gln Ile Ala Gly Leu
 100 105 110

Arg Gly Gln Leu Glu Ala Leu Gln Val Asp Gly Gly Arg Leu Glu Ala
 115 120 125

Glu Leu Arg Ser Met Gln Asp Val Val Glu Asp Phe Lys Asn Lys Tyr
 130 135 140

Glu Asp Glu Ile Asn Arg Arg Thr Ala Ala Glu Asn Glu Phe Val Val
 145 150 155 160

Leu Lys Lys Asp Val Asp Ala Ala Tyr Met Ser Lys Val Glu Leu Glu
 165 170 175

413

Ala Lys Val Asp Ala Leu Asn Asp Glu Ile Asn Phe Leu Arg Thr Leu
 180 185 190
 Asn Glu Thr Glu Leu Thr Glu Leu Gln Ser Gln Ile Ser Asp Thr Ser
 195 200 205
 Val Val Leu Ser Met Asp Asn Ser Arg Ser Leu Asp Leu Asp Gly Ile
 210 215 220
 Ile Ala Glu Val Lys Ala Gln Tyr Glu Glu Met Ala Lys Cys Ser Arg
 225 230 235 240
 Ala Glu Ala Glu Ala Trp Tyr Gln Thr Lys Phe Glu Thr Leu Gln Ala
 245 250 255
 Gln Ala Gly Lys His Gly Asp Asp Leu Arg Asn Thr Arg Asn Glu Ile
 260 265 270
 Ser Glu Met Asn Arg Ala Ile Gln Arg Leu Gln Ala Glu Ile Asp Asn
 275 280 285
 Ile Lys Asn Gln Arg Ala Lys Leu Glu Ala Ala Ile Ala Glu Ala Glu
 290 295 300
 Glu Arg Gly Glu Leu Ala Leu Lys Asp Ala Arg Ala Lys Gln Glu Glu
 305 310 315 320
 Leu Glu Ala Ala Leu Gln Arg Ala Lys Gln Asp Met Ala Arg Gln Leu
 325 330 335
 Arg Glu Tyr Gln Glu Leu Met Ser Val Lys Leu Ala Leu Asp Ile Glu
 340 345 350
 Ile Ala Thr Tyr Arg Lys Leu Leu Glu Gly Glu Glu Ser Arg Leu Ala
 355 360 365
 Gly Asp Gly Val Gly Ala Val Asn Ile Ser Val Met Asn Ser Thr Gly
 370 375 380
 Gly Ser Ser Ser Gly Gly Gly Ile Gly Leu Thr Leu Gly Gly Thr Met
 385 390 395 400
 Gly Ser Asn Ala Leu Ser Phe Ser Ser Ser Ala Gly Pro Gly Leu Leu
 405 410 415
 Lys Ala Tyr Ser Ile Arg Thr Ala Ser Ala Ser Arg Arg Ser Ala Arg
 420 425 430

Asp

414

<210> 464
<211> 121
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (50)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (110)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (114)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (115)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (117)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 464
Gly Ser Gly Cys Val Phe Ala Ile Leu Gly Arg Arg Cys Ser Arg Pro
1 5 10 15

Trp Arg Ile Trp Pro Gly Glu Pro Leu Gln Arg Ala Pro Pro Ala Ala
20 25 30

Gly Thr Arg Trp Pro His Gly His Arg Ser Ser Pro Val Gly Thr Pro
35 40 45

Gly Xaa Ala Pro Asn Val Pro Ala Ile Trp Gln Gln Pro Leu Trp Xaa
50 55 60

Glu Tyr Ser Cys Glu Tyr Gly Ser Met Lys Phe Tyr Ala Leu Cys Gly

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65              70              75              80
Phe Gly Gly Val Leu Ser Cys Gly Leu Thr His Thr Ala Val Val Pro
      85              90              95
Leu Asp Leu Val Lys Cys Arg Met Gln Val Asp Pro Gln Xaa Tyr Lys
      100             105             110
Gly Xaa Xaa Asn Xaa Ile Leu Ile Asn
      115             120

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<210> 465
<211> 68
<212> PRT
<213> Homo sapiens
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<400> 465
Arg Ile Pro Ala Pro Ala Ser Ser Arg His Ser Gly Gly Arg Cys Ala
 1             5             10             15
Ala Gly Pro Arg Gly Pro Pro Ala Thr Ala Ser Arg Ala Leu Arg Ala
      20             25             30
Val His Arg Pro Leu Asp Ala Ala Arg Gly Arg Thr Gly Ser Thr Ser
      35             40             45
His Leu Cys Ser Ser Ser Tyr Thr Ile Gly Cys Leu Leu Trp Phe Ser
      50             55             60
Gln Lys Ala Met
      65

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<210> 466
<211> 224
<212> PRT
<213> Homo sapiens
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<400> 466
Ala Thr Ile Leu Glu Arg Glu Ala Glu Gln Ser Arg Leu Gly Ala Thr
 1             5             10             15
Glu Arg Ala Ala Ala Ala Met Asn Pro Glu Tyr Asp Tyr Leu Phe
          20             25             30
Lys Leu Leu Leu Ile Gly Asp Ser Gly Val Gly Lys Ser Cys Leu Leu
          35             40             45

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416

Leu Arg Phe Ala Asp Asp Thr Tyr Thr Glu Ser Tyr Ile Ser Thr Ile
 50 55 60
 Gly Val Asp Phe Lys Ile Arg Thr Ile Glu Leu Asp Gly Lys Thr Ile
 65 70 75 80
 Lys Leu Gln Ile Trp Asp Thr Ala Gly Gln Glu Arg Phe Arg Thr Ile
 85 90 95
 Thr Ser Ser Tyr Tyr Arg Gly Ala His Gly Ile Ile Val Val Tyr Asp
 100 105 110
 Val Thr Asp Gln Glu Ser Tyr Ala Asn Val Lys Gln Trp Leu Gln Glu
 115 120 125
 Ile Asp Arg Tyr Ala Ser Glu Asn Val Asn Lys Leu Leu Val Gly Asn
 130 135 140
 Lys Ser Asp Leu Thr Thr Lys Lys Val Val Asp Asn Thr Thr Ala Lys
 145 150 155 160
 Glu Phe Ala Asp Ser Leu Gly Ile Pro Phe Leu Glu Thr Ser Ala Lys
 165 170 175
 Asn Ala Thr Asn Val Glu Gln Ala Phe Met Thr Met Ala Ala Glu Ile
 180 185 190
 Lys Lys Arg Met Gly Pro Gly Ala Ala Ser Gly Gly Glu Arg Pro Asn
 195 200 205
 Leu Lys Ile Asp Ser Thr Pro Val Lys Pro Ala Gly Gly Gly Cys Cys
 210 215 220

<210> 467

<211> 76

<212> PRT

<213> Homo sapiens

<400> 467

Ser Glu Ala Pro Gly Glu Ser Val Gly Thr Thr Pro Glu Ala Gln Met
 1 5 10 15
 Lys Thr Gly Pro Phe Ala Glu His Ser Asn Gln Leu Trp Asn Ile Ser
 20 25 30
 Ala Val Pro Ser Trp Ser Lys Val Asn Gln Gly Leu Ile Arg Met Tyr

417

35 40 45
 Lys Ala Glu Cys Leu Glu Lys Phe Pro Val Ile Gln His Phe Lys Phe
 50 55 60

Gly Ser Leu Leu Pro Ile His Pro Val Thr Ser Gly
 65 70 75

<210> 468

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 468

Ser Leu Ala Arg Thr Gly Pro Arg Ser Leu Ala Arg Pro Cys Arg Arg
 1 5 10 15

Arg Pro Ala His Arg His Pro Leu Gln Pro Cys Pro Pro Gly Xaa Cys
 20 25 30

418

Pro Arg Xaa Pro Thr Ala Asp Val Arg Arg Pro Arg His Arg Xaa Arg
 35 40 45

Xaa Glu Leu His Ala His Asn Val Thr Ser Pro Pro Ala Pro Thr Ala
 50 55 60

Trp Ala Ala Pro Ala Pro Gln His Gln Pro Gln Pro Leu Xaa Leu Val
 65 70 75 80

Pro Gly Arg Arg Val Cys Ser Arg Leu Leu Pro Arg Cys Ala Cys Gly
 85 90 95

Xaa Cys Cys Pro Gly Val Ala Leu Ala Gly Arg Ile Pro Trp Asn
 100 105 110

<210> 469

<211> 459

<212> PRT

<213> Homo sapiens

<400> 469

Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Leu Ser Ser Pro
 1 5 10 15

Ser Pro Val Cys Leu Pro Pro Ala Ala Ala Thr Met Thr Thr Ser Ile
 20 25 30

Arg Gln Phe Thr Ser Ser Ser Ser Ile Lys Gly Ser Ser Gly Leu Gly
 35 40 45

Gly Gly Ser Ser Arg Thr Ser Cys Arg Leu Ser Gly Gly Leu Gly Ala
 50 55 60

Gly Ser Cys Arg Leu Gly Ser Ala Gly Gly Leu Gly Ser Thr Leu Gly
 65 70 75 80

Gly Ser Ser Tyr Ser Ser Cys Tyr Ser Phe Gly Ser Gly Gly Gly Tyr
 85 90 95

Gly Ser Ser Phe Gly Gly Val Asp Gly Leu Leu Ala Gly Gly Glu Lys
 100 105 110

Ala Thr Met Gln Asn Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp Lys
 115 120 125

Val Arg Ala Leu Glu Glu Ala Asn Thr Glu Leu Glu Val Lys Ile Arg
 130 135 140

419

Asp	Trp	Tyr	Gln	Arg	Gln	Ala	Pro	Gly	Pro	Ala	Arg	Asp	Tyr	Ser	Gln	145	150	155	160
Tyr	Tyr	Arg	Thr	Ile	Glu	Glu	Leu	Gln	Asn	Lys	Ile	Leu	Thr	Ala	Thr	165	170	175	
Val	Asp	Asn	Ala	Asn	Ile	Leu	Leu	Gln	Ile	Asp	Asn	Ala	Arg	Leu	Ala	180	185	190	
Ala	Asp	Asp	Phe	Arg	Thr	Lys	Phe	Glu	Thr	Glu	Gln	Ala	Leu	Arg	Leu	195	200	205	
Ser	Val	Glu	Ala	Asp	Ile	Asn	Gly	Leu	Arg	Arg	Val	Leu	Asp	Glu	Leu	210	215	220	
Thr	Leu	Ala	Arg	Ala	Asp	Leu	Glu	Met	Gln	Ile	Glu	Asn	Leu	Lys	Glu	225	230	235	240
Glu	Leu	Ala	Tyr	Leu	Lys	Lys	Asn	His	Glu	Glu	Glu	Met	Asn	Ala	Leu	245	250	255	
Arg	Gly	Gln	Val	Gly	Gly	Glu	Ile	Asn	Val	Glu	Met	Asp	Ala	Ala	Pro	260	265	270	
Gly	Val	Asp	Leu	Ser	Arg	Ile	Leu	Asn	Glu	Met	Arg	Asp	Gln	Tyr	Glu	275	280	285	
Lys	Met	Ala	Glu	Lys	Asn	Arg	Lys	Asp	Ala	Glu	Asp	Trp	Phe	Phe	Ser	290	295	300	
Lys	Thr	Glu	Glu	Leu	Asn	Arg	Glu	Val	Ala	Thr	Asn	Ser	Glu	Leu	Val	305	310	315	320
Gln	Ser	Gly	Lys	Ser	Glu	Ile	Ser	Glu	Leu	Arg	Arg	Thr	Met	Gln	Ala	325	330	335	
Leu	Glu	Ile	Glu	Leu	Gln	Ser	Gln	Leu	Ser	Met	Lys	Ala	Ser	Leu	Glu	340	345	350	
Gly	Asn	Leu	Ala	Glu	Thr	Glu	Asn	Arg	Tyr	Cys	Val	Gln	Leu	Ser	Gln	355	360	365	
Ile	Gln	Gly	Leu	Ile	Gly	Ser	Val	Glu	Glu	Gln	Leu	Ala	Gln	Leu	Arg	370	375	380	
Cys	Glu	Met	Glu	Gln	Gln	Asn	Gln	Glu	Tyr	Lys	Ile	Leu	Leu	Asp	Val	385	390	395	400
Lys	Thr	Arg	Leu	Glu	Gln	Glu	Ile	Ala	Thr	Tyr	Arg	Arg	Leu	Leu	Glu	405	410	415	

420

Gly Glu Asp Ala His Leu Thr Gln Tyr Lys Lys Glu Pro Val Thr Thr
 420 425 430

Arg Gln Val Arg Thr Ile Val Glu Glu Val Gln Asp Gly Lys Val Ile
 435 440 445

Ser Ser Arg Glu Gln Val His Gln Thr Thr Arg
 450 455

<210> 470

<211> 158

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (158)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 470

Pro Pro Pro Pro Pro Pro Pro Glu Leu Cys Ser Met Ala Ser Arg Arg
 1 5 10 15

Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile Ile
 20 25 30

Tyr Ser Phe Val Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Val Gly
 35 40 45

Val Trp Gly Lys Leu Thr Leu Gly Thr Tyr Ile Ser Leu Ile Ala Glu
 50 55 60

Asn Ser Thr Asn Ala Pro Tyr Val Leu Ile Gly Thr Gly Thr Thr Ile
 65 70 75 80

Val Val Phe Gly Leu Phe Gly Cys Phe Ala Thr Cys Arg Gly Ser Pro
 85 90 95

Trp Met Leu Lys Leu Tyr Ala Met Phe Leu Ser Leu Val Phe Leu Ala
 100 105 110

Glu Leu Val Ala Gly Ile Ser Gly Phe Val Phe Arg His Glu Ile Lys
 115 120 125

Asp Thr Phe Leu Arg Thr Tyr Thr Asp Ala Met Gln Thr Tyr Asn Gly
 130 135 140

Asn Asp Glu Arg Ser Arg Ala Val Asp His Val Gln Arg Xaa
 145 150 155

421

<210> 471

<211> 59

<212> PRT

<213> Homo sapiens

<400> 471

Val Leu Phe Phe Tyr Glu Cys Pro Asn Leu Cys Phe Pro Leu Pro Ser
1 5 10 15

Gln Thr Val Trp Pro Val Glu Ser Val Trp Phe Val Phe Ile Ser Pro
20 25 30

Ser Phe Leu Glu Gln Gly Leu Arg Pro Cys His Ile Ser Tyr Ala Leu
35 40 45

His Pro Arg Leu Phe Trp Thr Leu Lys Val Asp
50 55

<210> 472

<211> 320

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 472

Asp Pro Asp Glu Val Phe Pro Val Cys Leu Pro Leu Thr Gly Asp Ala
1 5 10 15

422

Gly Glu Asp Gly Gly Lys Met Leu His Leu Pro Glu Trp Pro Glu Gln
 20 25 30
 Pro Pro Gly Gly Pro Ala Ala Leu Gln Val Arg Gly Ala Glu Asp Xaa
 35 40 45
 Xaa Leu Ser Phe Xaa Asp Cys Glu Ser Leu Gln Ala Val Phe Asp Pro
 50 55 60
 Ala Ser Cys Pro His Met Leu Arg Ala Pro Ala Arg Val Leu Gly Glu
 65 70 75 80
 Ala Val Leu Pro Phe Ser Pro Ala Leu Ala Glu Val Thr Leu Gly Ile
 85 90 95
 Gly Arg Gly Ala Gly Ser Ser Trp Xaa Tyr His Glu Glu Glu Ala Asp
 100 105 110
 Ser Thr Ala Lys Ala Met Val Thr Glu Met Cys Leu Gly Glu Glu Asp
 115 120 125
 Phe Gln Gln Leu Gln Ala Gln Glu Gly Val Ala Ile Thr Phe Cys Leu
 130 135 140
 Lys Glu Phe Arg Gly Leu Leu Ser Phe Ala Glu Ser Ala Asn Leu Asn
 145 150 155 160
 Leu Ser Ile His Phe Asp Ala Pro Gly Arg Pro Ala Ile Phe Thr Ile
 165 170 175
 Lys Asp Ser Leu Leu Asp Gly His Phe Val Leu Ala Thr Leu Ser Asp
 180 185 190
 Thr Asp Ser His Ser Gln Asp Leu Gly Ser Pro Glu Arg His Gln Pro
 195 200 205
 Val Pro Gln Leu Gln Ala His Ser Thr Pro His Pro Asp Asp Phe Ala
 210 215 220
 Asn Asp Asp Ile Asp Ser Tyr Met Ile Ala Met Glu Thr Thr Ile Gly
 225 230 235 240
 Asn Glu Gly Ser Arg Val Leu Pro Ser Ile Ser Leu Ser Pro Gly Pro
 245 250 255
 Gln Pro Pro Lys Ser Pro Gly Pro His Ser Glu Glu Glu Asp Glu Ala
 260 265 270
 Glu Pro Ser Thr Val Pro Gly Thr Pro Pro Pro Lys Lys Phe Arg Ser
 275 280 285

423

Leu Phe Phe Gly Ser Ile Leu Ala Pro Val Arg Ser Pro Gln Gly Pro
 290 295 300

Ser Leu Cys Trp Arg Lys Thr Val Arg Val Lys Ala Glu Pro Arg Thr
 305 310 315 320

<210> 473

<211> 331

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (283)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (299)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 473

Pro Pro Cys Ala Val Pro Gly Pro Arg Leu Ser Pro Lys Leu Arg Thr
 1 5 10 15

Pro Ser Asn Ser Arg Glu Ser Xaa Ile Cys Val Ser Gly Arg Ala Glu
 20 25 30

Ala Leu Thr Phe Arg His Gly Ala Glu Gly Ser Asp Arg Arg Arg Gln
 35 40 45

Arg Arg Glu Gly Val Leu Gly Pro Ala Leu Leu Cys Arg Pro Trp Glu
 50 55 60

Val Leu Gly Ala His Glu Val Pro Ser Arg Asn Ile Phe Ser Glu Gln

424

65		70		75		80									
Thr	Ile	Pro	Pro	Ser	Ala	Lys	Tyr	Gly	Gly	Arg	His	Thr	Val	Thr	Met
				85					90					95	
Ile	Pro	Gly	Asp	Gly	Ile	Gly	Pro	Glu	Leu	Met	Leu	His	Val	Lys	Ser
		100						105					110		
Val	Phe	Arg	His	Ala	Cys	Val	Pro	Val	Asp	Phe	Glu	Glu	Val	His	Val
		115					120					125			
Ser	Ser	Asn	Ala	Asp	Glu	Glu	Asp	Ile	Arg	Asn	Ala	Ile	Met	Ala	Ile
	130					135					140				
Arg	Arg	Asn	Arg	Val	Ala	Leu	Lys	Gly	Asn	Ile	Glu	Thr	Asn	His	Asn
145					150					155					160
Leu	Pro	Pro	Ser	His	Lys	Ser	Arg	Asn	Asn	Ile	Leu	Arg	Thr	Ser	Leu
				165					170					175	
Asp	Leu	Tyr	Ala	Asn	Val	Ile	His	Cys	Lys	Ser	Leu	Pro	Gly	Val	Val
		180						185					190		
Thr	Arg	His	Lys	Asp	Ile	Asp	Ile	Leu	Ile	Val	Arg	Glu	Asn	Thr	Glu
		195					200						205		
Gly	Glu	Tyr	Ser	Ser	Leu	Glu	His	Glu	Ser	Val	Ala	Gly	Val	Val	Glu
	210					215					220				
Ser	Leu	Lys	Ile	Ile	Thr	Lys	Ala	Lys	Ser	Leu	Arg	Ile	Ala	Glu	Tyr
225					230					235					240
Ala	Phe	Lys	Leu	Ala	Gln	Glu	Ser	Gly	Arg	Lys	Lys	Val	Thr	Ala	Val
				245					250					255	
His	Lys	Ala	Asn	Ile	Met	Lys	Leu	Gly	Asp	Gly	Leu	Phe	Leu	Gln	Cys
		260						265					270		
Cys	Arg	Glu	Val	Ala	Ala	Arg	Tyr	Pro	Gln	Xaa	Thr	Phe	Glu	Asn	Met
		275					280						285		
Ile	Val	Asp	Asn	Thr	Thr	Met	Gln	Leu	Val	Xaa	Arg	Pro	Gln	Gln	Phe
	290					295					300				
Asp	Val	Met	Val	Met	Pro	Asn	Leu	Tyr	Gly	Asn	Ile	Val	Lys	Gln	Cys
305					310					315					320
Leu	Arg	Gly	Xaa	Gly	Arg	Gly	Pro	Lys	Leu	Val					
				325					330						

425

<210> 474

<211> 30

<212> PRT

<213> Homo sapiens

<400> 474

Thr Pro Ile Ser Thr Lys Asn Thr Lys Ile Ser Gln Ala Arg Trp Arg
 1 5 10 15
 Ala His Val Val Pro Ala Thr Arg Glu Ala Asp Ala Glu Glu
 20 25 30

<210> 475

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 475

Thr Gln Phe Ser Leu Ser Pro Val Glu Thr Ile Tyr Thr Ile Leu Cys
 1 5 10 15
 Ile Asn Val Tyr Thr Leu Pro Ile Cys Ile His Ile Tyr Ile Val Tyr
 20 25 30
 Ile Leu Tyr Met Tyr Arg Cys Val Tyr Val His Ile Tyr Thr His Ala
 35 40 45
 His Asn Lys Ile Arg Cys Ser Leu Gln Ile Gln Met Leu Ile Thr Lys
 50 55 60
 Pro Asp Ala Thr Gln Thr Ala Ala Glu Glu Thr Arg Leu Asp Ser Cys
 65 70 75 80
 Asn Arg Ser Gln Lys Ile Lys Thr Ala Thr Cys Ser Asp Phe Gly His
 85 90 95
 Phe Cys Met Phe Ile Lys Asn Gly Phe Val Thr Arg Lys Xaa Arg Thr
 100 105 110
 Ser Val Ser Glu Lys Gly Arg Trp Gly Glu Pro Ser
 115 120

426

<210> 476

<211> 64

<212> PRT

<213> Homo sapiens

<400> 476

Asn Gly Tyr Leu Val Phe Pro Arg Lys Asn Ser Phe Leu Leu Ile Phe
 1 5 10 15

Gly Leu Phe Val Tyr Leu Glu Thr Asn Leu Asp Ser Leu Pro Leu Val
 20 25 30

Asp Thr His Ser Lys Arg Thr Leu Leu Ile Lys Thr Val Glu Thr Arg
 35 40 45

Asp Gly Gln Val Ile Asn Glu Thr Ser Gln His His Asp Asp Leu Glu
 50 55 60

<210> 477

<211> 107

<212> PRT

<213> Homo sapiens

<400> 477

Val Leu Thr Val Asp Ala Arg Asn His Gly Asp Ser Pro His Ser Pro
 1 5 10 15

Asp Met Ser Tyr Glu Ile Met Ser Gln Asp Leu Gln Asp Leu Leu Pro
 20 25 30

Gln Leu Gly Leu Val Pro Cys Val Val Val Gly His Ser Met Gly Gly
 35 40 45

Lys Thr Ala Met Leu Leu Ala Leu Gln Arg Pro Glu Leu Val Glu Arg
 50 55 60

Leu Ile Ala Val Asp Ile Ser Pro Val Glu Ser Thr Gly Val Ser His
 65 70 75 80

Phe Ala Thr Tyr Val Ala Ala Met Arg Ala Ile Asn Ile Ala Asp Arg
 85 90 95

Leu Ala Pro Leu Pro Cys Pro Lys Thr Gly Gly
 100 105

427

<210> 478

<211> 282

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (281)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 478

Arg Glu Leu Gly Gly Thr Leu Leu Ser Ala Ile Glu Val Glu Gly Ala
 1 5 10 15

Lys Met Gln Ser Asn Lys Thr Phe Asn Leu Glu Lys Gln Asn His Thr
 20 25 30

Pro Arg Lys His His Gln His His His Gln Gln Gln His His Gln Gln
 35 40 45

Gln Gln Gln Gln Pro Pro Pro Pro Pro Ile Pro Ala Asn Gly Gln Gln
 50 55 60

Ala Ser Ser Gln Asn Glu Gly Leu Thr Ile Asp Leu Lys Asn Phe Arg
 65 70 75 80

Lys Pro Gly Glu Lys Thr Phe Thr Gln Arg Ser Arg Leu Phe Val Gly
 85 90 95

Asn Leu Pro Pro Asp Ile Thr Glu Glu Glu Met Arg Lys Leu Phe Glu
 100 105 110

Lys Tyr Gly Lys Ala Gly Glu Val Phe Ile His Lys Asp Lys Gly Phe
 115 120 125

Gly Phe Ile Arg Leu Glu Thr Arg Thr Leu Ala Glu Ile Ala Lys Val
 130 135 140

Glu Leu Asp Asn Met Pro Leu Arg Gly Lys Gln Leu Arg Val Arg Phe
 145 150 155 160

Ala Cys His Ser Ala Ser Leu Thr Val Arg Asn Leu Pro Gln Tyr Val
 165 170 175

Ser Asn Glu Leu Leu Glu Glu Ala Phe Ser Val Phe Gly Gln Val Glu
 180 185 190

Arg Ala Val Val Ile Val Asp Asp Arg Gly Arg Pro Ser Gly Lys Gly
 195 200 205

428

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Ile Val Glu Phe Ser Gly Lys Pro Ala Ala Arg Lys Ala Leu Asp Arg
    210                215                220

Cys Ser Glu Gly Ser Phe Leu Leu Thr Thr Phe Pro Arg Pro Val Thr
    225                230                235                240

Val Glu Pro Met Asp Gln Leu Asp Asp Glu Glu Gly Leu Pro Glu Lys
                245                250                255

Leu Val Ile Lys Asn Gln Gln Phe His Lys Glu Arg Glu Gln Pro Pro
                260                265                270

Arg Phe Ala Gln Pro Gly Ser Phe Xaa Val
    275                280

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<210> 479
<211> 289
<212> PRT
<213> Homo sapiens

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<220>
<221> SITE
<222> (206)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (215)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (218)
<223> Xaa equals any of the naturally occurring L-amino acids

```

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<220>
<221> SITE
<222> (285)
<223> Xaa equals any of the naturally occurring L-amino acids

```

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<400> 479
Ala Val Pro Val Arg Asn Ser Arg Val Asp Pro Arg Val Arg Val Cys
    1                5                10                15

Gly Pro Leu Ser Ala Pro Arg Gly Ser Arg Arg Pro Thr Val Pro Gly
    20                25                30

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Thr Pro Ala Cys Leu Ala Arg Pro Ala Ala Gln Gly Phe Ser Ala Ala

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429

35	40	45
Leu Pro Val Arg Trp Thr Gly Arg Arg Ala Gly Pro Ser Arg Pro Val		
50	55	60
Pro Ile Gly Thr Pro Ser Arg Ala Ala Asp Pro Ser Gln Gly Glu Met		
65	70	75 80
Ser Ala Asp Ala Ala Ala Gly Ala Pro Leu Pro Arg Leu Cys Cys Leu		
	85	90 95
Glu Lys Gly Pro Asn Gly Tyr Gly Phe His Leu His Gly Glu Lys Gly		
	100	105 110
Lys Leu Gly Gln Tyr Ile Arg Leu Val Glu Pro Gly Ser Pro Ala Glu		
	115	120 125
Lys Ala Gly Leu Leu Ala Gly Asp Arg Leu Val Glu Val Asn Gly Glu		
	130	135 140
Asn Val Glu Lys Glu Thr His Gln Gln Val Val Ser Arg Ile Arg Ala		
	145	150 155 160
Ala Leu Asn Ala Val Arg Leu Leu Val Val Asp Pro Glu Thr Asp Glu		
	165	170 175
Gln Leu Gln Lys Leu Gly Val Gln Val Arg Glu Glu Leu Leu Arg Ala		
	180	185 190
Gln Glu Ala Pro Gly Gln Ala Glu Pro Pro Ala Ala Ala Xaa Val Gln		
	195	200 205
Gly Ala Gly Asn Glu Asn Xaa Pro Arg Xaa Ala Asp Lys Ser His Pro		
	210	215 220
Glu Gln Arg Glu Leu Arg Pro Arg Leu Cys Thr Met Lys Lys Gly Pro		
	225	230 235 240
Ser Gly Tyr Gly Phe Asn Leu His Ser Asp Lys Ser Lys Pro Gly Gln		
	245	250 255
Phe Ile Arg Ser Val Asp Pro Asp Ser Pro Ala Glu Ala Ser Gly Leu		
	260	265 270
Arg Ala Gln Asp Arg Ile Val Glu Val Met Leu Leu Xaa Ser Leu Pro		
	275	280 285
Ile		

430

<210> 480

<211> 44

<212> PRT

<213> Homo sapiens

<400> 480

Gly Ser Thr His Ala Ser Gly Arg Asn Glu Gly Pro Pro Ala Lys Thr
1 5 10 15

Lys Ser Trp Val Gly Pro Thr Leu His Phe His Arg Lys Ser Glu His
20 25 30

Leu Val Gly Leu Lys Val Leu Cys Cys Phe Arg Leu
35 40

<210> 481

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 481

Ser Ile Xaa His Xaa Arg Lys Xaa Xaa Xaa Thr Val Arg Ser Asp Ser
1 5 10 15

431

Arg Val Asp Pro Arg Ser Asp Asp Phe Thr Pro Leu Glu Ile Leu Trp
20 25 30
Thr Phe Ser Ile Tyr Leu Glu Ser Val Ala Ile Leu Pro Gln Leu Phe
35 40 45
Met Val Ser Lys Thr Gly Glu Ala Glu Thr Ile Thr Ser His Tyr Leu
50 55 60
Phe Ala Leu Gly Val Tyr Arg Thr Leu Tyr Leu Phe Asn Trp Ile Trp
65 70 75 80
Arg Tyr His Phe Glu Gly Phe Phe Asp Leu Ile Ala Ile Val Ala Gly
85 90 95
Leu Val Gln Thr Val Leu Tyr Cys Asp Phe Phe Tyr Leu Tyr Ile Thr
100 105 110
Lys Val Leu Lys Gly Lys Lys Leu Ser Leu Pro Ala
115 120

<210> 482

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 482

Cys Ser Ser Arg Gly Ala His His Ser His Cys Asp Arg Leu Pro His

432

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      1             5             10             15
Ser  Pro  Trp  Pro  Gly  Leu  Arg  Glu  Val  Glu  Leu  Leu  Ala  Ser  Val  His
      20             25             30
Thr  Glu  Gln  Met  Glu  Glu  Glu  Leu  Ala  Leu  Gly  Pro  Arg  Gly  Gln  Gly
      35             40             45
Gly  Ala  Ser  Leu  Ala  Gly  Arg  Asp  Gly  Arg  Ser  Ala  Gly  Ala  Gly  Ser
      50             55             60
Tyr  Gly  Ala  Leu  Ala  Asn  Ser  Ala  Trp  Gly  Gly  Pro  Arg  Lys  Val  Ala
      65             70             75             80
Ser  Ala  Ser  Ala  Ala  Ala  Ser  Thr  Leu  Ser  Glu  Pro  Pro  Arg  Arg  Thr
      85             90             95
Gln  Glu  Ser  Arg  Thr  Arg  Thr  Arg  Ala  Leu  Gly  Leu  Pro  Thr  Leu  Pro
      100            105            110
Met  Glu  Lys  Leu  Ala  Ala  Ser  Asn  Arg  Xaa  Pro  Xaa  Gly  Leu  Xaa  Gly
      115            120            125
Pro  Gly  Xaa
      130

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<210> 483

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (174)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 483

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Lys  Lys  Pro  Pro  Ile  Thr  His  Pro  Ser  Thr  Pro  Ala  Glu  Glu  Thr  Tyr
  1             5             10             15

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Asn  Leu  Gly  Arg  Gln  Val  Leu  Pro  Leu  Ser  Ala  Val  Thr  Tyr  Phe  Gln
      20             25             30

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```

Lys  Ser  Gly  Pro  Gly  Leu  Leu  Pro  Ala  Pro  Ala  Thr  Gln  Ser  Ala  Ser

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433

35	40	45
Val Ala Gly Thr Leu Gln Asn Ser Leu Cys Ser Gln Val Thr Lys Lys		
50	55	60
Lys Arg Ala Asn Met Leu Val Leu Leu Ala Gly Ile Phe Val Val His		
65	70	75 80
Ile Ala Thr Val Ile Met Leu Phe Val Ser Thr Ile Ala Asn Val Trp		
85	90	95
Leu Val Ser Asn Thr Val Asp Ala Ser Val Gly Leu Trp Lys Asn Cys		
100	105	110
Thr Asn Ile Ser Cys Ser Asp Ser Leu Ser Tyr Ala Ser Glu Asp Ala		
115	120	125
Leu Lys Thr Val Gln Ala Phe Met Ile Leu Ser Ile Ile Phe Cys Val		
130	135	140
Ile Ala Leu Leu Val Phe Val Phe Gln Leu Phe Thr Met Glu Lys Gly		
145	150	155 160
Asn Arg Phe Phe Leu Ser Gly Xaa Thr Thr Leu Val Cys Xaa Leu Cys		
165	170	175
Ile Leu Val Gly Cys Pro Ser Thr Leu Val Ile Met Arg Ile Val Met		
180	185	190
Glu Arg Ile Cys Thr Thr Ala Ile Pro Thr Ser Trp Ala Gly Ser Ala		
195	200	205
Ser Ala Ser Ala Ser Ser Ser Ala Phe Ser Ile Trp Ser		
210	215	220

<210> 484

<211> 382

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

434

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (298)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (324)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (358)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 484

Thr	Lys	Leu	Trp	Thr	Leu	Val	Ser	Asn	Pro	Asp	Thr	Asp	Ala	Leu	Ile
1				5					10					15	

Cys	Trp	Ser	Pro	Ser	Xaa	Asn	Ser	Phe	His	Val	Phe	Asp	Gln	Gly	Gln
			20					25					30		

Phe	Ala	Lys	Glu	Val	Leu	Pro	Lys	Tyr	Phe	Lys	His	Asn	Asn	Met	Ala
	35						40					45			

Ser	Phe	Val	Arg	Gln	Xaa	Asn	Met	Tyr	Gly	Phe	Arg	Lys	Val	Val	His
	50					55					60				

Ile	Glu	Gln	Gly	Xaa	Leu	Val	Lys	Pro	Glu	Arg	Asp	Asp	Thr	Glu	Phe
65					70					75				80	

Gln	His	Pro	Cys	Phe	Leu	Arg	Gly	Gln	Glu	Gln	Leu	Leu	Glu	Asn	Ile
				85					90					95	

Lys	Arg	Lys	Val	Thr	Ser	Val	Ser	Thr	Leu	Lys	Ser	Glu	Asp	Ile	Lys
			100					105						110	

Ile	Arg	Gln	Asp	Ser	Val	Thr	Lys	Leu	Leu	Thr	Asp	Val	Gln	Leu	Met
				115				120						125	

435

Lys Gly Lys Gln Glu Cys Met Asp Ser Lys Leu Leu Ala Met Lys His
 130 135 140
 Glu Asn Glu Ala Leu Trp Arg Glu Val Ala Ser Leu Arg Gln Lys His
 145 150 155 160
 Ala Gln Gln Gln Lys Val Val Asn Lys Leu Ile Gln Phe Leu Ile Ser
 165 170 175
 Leu Val Gln Ser Asn Arg Ile Leu Gly Val Lys Arg Lys Ile Pro Leu
 180 185 190
 Met Leu Asn Asp Ser Gly Ser Ala His Ser Met Pro Lys Tyr Ser Arg
 195 200 205
 Gln Phe Ser Leu Glu His Val His Gly Ser Gly Pro Tyr Ser Ala Pro
 210 215 220
 Ser Pro Ala Tyr Ser Ser Ser Ser Leu Tyr Ala Pro Asp Ala Val Ala
 225 230 235 240
 Ser Ser Gly Pro Ile Ile Ser Asp Ile Thr Glu Leu Ala Pro Ala Ser
 245 250 255
 Pro Met Ala Ser Pro Gly Gly Ser Ile Asp Glu Arg Pro Leu Ser Ser
 260 265 270
 Ser Pro Leu Val Arg Val Lys Glu Glu Pro Pro Ser Pro Pro Xaa Ser
 275 280 285
 Pro Arg Val Glu Glu Ala Ser Pro Gly Xaa Pro Ser Ser Val Asp Thr
 290 295 300
 Leu Leu Ser Pro Thr Ala Leu Ile Asp Ser Ile Leu Arg Glu Ser Glu
 305 310 315 320
 Pro Ala Pro Xaa Ser Val Thr Ala Leu Thr Asp Ala Arg Gly His Thr
 325 330 335
 Asp Thr Glu Gly Arg Pro Pro Ser Pro Pro Pro Thr Ser Thr Pro Glu
 340 345 350
 Lys Cys Leu Ser Val Xaa Ala Trp Thr Arg Met Ser Ser Val Thr Thr
 355 360 365
 Trp Met Leu Trp Thr Pro Thr Trp Ile Thr Cys Arg Pro Cys
 370 375 380

<210> 485

436

<211> 416

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (399)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 485

Pro Ser Val Ala Asn Val Gly Ser His Cys Asp Leu Ser Leu Lys Ile
 1 5 10 15

Pro Glu Ile Ser Ile Gln Asp Met Thr Ala Gln Val Thr Ser Pro Ser
 20 25 30

Gly Lys Thr His Glu Ala Glu Ile Val Glu Gly Glu Asn His Thr Tyr
 35 40 45

Cys Ile Arg Phe Val Pro Ala Glu Met Gly Thr His Thr Val Ser Val
 50 55 60

Lys Tyr Lys Gly Gln His Val Pro Gly Ser Pro Phe Gln Phe Thr Val
 65 70 75 80

Gly Pro Leu Gly Glu Gly Gly Ala His Lys Val Arg Ala Gly Gly Pro
 85 90 95

Gly Leu Glu Arg Ala Glu Ala Gly Val Pro Ala Glu Phe Ser Ile Trp
 100 105 110

Thr Arg Glu Ala Gly Ala Gly Gly Leu Ala Ile Ala Val Glu Gly Pro
 115 120 125

Ser Lys Ala Glu Ile Ser Phe Glu Asp Arg Lys Asp Gly Ser Cys Gly
 130 135 140

Val Ala Tyr Val Val Gln Glu Pro Gly Asp Tyr Glu Val Ser Val Lys
 145 150 155 160

Phe Asn Glu Glu His Ile Pro Asp Ser Pro Phe Val Val Pro Val Ala
 165 170 175

Ser Pro Ser Gly Asp Ala Arg Arg Leu Thr Val Ser Ser Leu Gln Glu
 180 185 190

Ser Gly Leu Lys Val Asn Gln Pro Ala Ser Phe Ala Val Ser Leu Asn
 195 200 205

Gly Ala Lys Gly Ala Ile Asp Ala Lys Val His Ser Pro Ser Gly Ala
 210 215 220

437

Leu Glu Glu Cys Tyr Val Thr Glu Ile Asp Gln Asp Lys Tyr Ala Val
 225 230 235 240
 Arg Phe Ile Pro Arg Glu Asn Gly Val Tyr Leu Ile Asp Val Lys Phe
 245 250 255
 Asn Gly Thr His Ile Pro Gly Ser Pro Phe Lys Ile Arg Val Gly Glu
 260 265 270
 Pro Gly His Gly Gly Asp Pro Gly Leu Val Ser Ala Tyr Gly Ala Gly
 275 280 285
 Leu Glu Gly Gly Val Thr Gly Asn Pro Ala Glu Phe Val Val Asn Thr
 290 295 300
 Ser Asn Ala Gly Ala Gly Ala Leu Ser Val Thr Ile Asp Gly Pro Ser
 305 310 315 320
 Lys Val Lys Met Asp Cys Gln Glu Cys Pro Glu Gly Tyr Arg Val Thr
 325 330 335
 Tyr Thr Pro Met Ala Pro Gly Ser Tyr Leu Ile Ser Ile Lys Tyr Gly
 340 345 350
 Gly Pro Tyr His Ile Gly Gly Ser Pro Phe Lys Ala Lys Val Thr Gly
 355 360 365
 Pro Arg Leu Val Ser Asn His Ser Leu His Glu Thr Ser Ser Val Phe
 370 375 380
 Val Asp Ser Leu Thr Lys Ala Thr Cys Ala Pro Gln His Gly Xaa Pro
 385 390 395 400
 Gly Pro Gly Pro Ala Asp Ala Ser Lys Val Val Ala Lys Gly Trp Gly
 405 410 415

<210> 486

<211> 46

<212> PRT

<213> Homo sapiens

<400> 486

Phe Val Thr Ser Gly Lys Ile Ser Leu Tyr Val Tyr Ile Leu Thr Ile
 1 5 10 15

438

Arg Leu Asp Thr Asn Lys Ala Thr Leu Leu Thr Ala Ser Gly Glu Leu
20 25 30

Ile Leu Phe Leu Ile Phe Phe Asn Lys Asp Ile Leu Arg Tyr
35 40 45

<210> 487

<211> 162

<212> PRT

<213> Homo sapiens

<400> 487

Leu Gly Val Ala Leu Gly Ala Val Pro Lys Leu His Leu Gly Val Leu
1 5 10 15

Val Ser Thr Gly Leu Arg Thr Ala Val Gly Ser Pro Arg Leu Pro Pro
20 25 30

Thr Ala Leu Gly Ala Ala Tyr Gly Thr Ala Lys Ser Gly Thr Gly Ile
35 40 45

Ala Ala Met Ser Val Met Arg Pro Glu Gln Ile Met Lys Ser Ile Ile
50 55 60

Pro Val Val Met Ala Gly Ile Ile Ala Ile Tyr Gly Leu Val Val Ala
65 70 75 80

Val Leu Ile Ala Asn Ser Leu Asn Asp Asp Ile Ser Leu Tyr Lys Ser
85 90 95

Phe Leu Gln Leu Gly Ala Gly Leu Ser Val Gly Leu Ser Gly Leu Ala
100 105 110

Ala Gly Phe Ala Ile Gly Ile Val Gly Asp Ala Gly Val Arg Gly Thr
115 120 125

Ala Gln Gln Pro Arg Leu Phe Val Gly Met Ile Leu Ile Leu Ile Phe
130 135 140

Ala Glu Val Leu Gly Leu Tyr Gly Leu Ile Val Ala Leu Ile Leu Ser
145 150 155 160

Thr Lys

<210> 488

<211> 114

439

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 488

Gln	Ala	Leu	Arg	Pro	Gly	Ser	Phe	Arg	Gly	Thr	Gly	Arg	Lys	Arg	Glu
1				5					10					15	

Arg	Glu	Arg	Glu	Arg	Met	Ser	Leu	Ser	Asp	Trp	His	Leu	Ala	Val	Lys
	20						25						30		

Leu	Ala	Asp	Gln	Pro	Leu	Ala	Pro	Lys	Ser	Ile	Leu	Gln	Leu	Pro	Glu
	35						40					45			

Ser	Glu	Leu	Gly	Glu	Tyr	Ser	Leu	Gly	Gly	Tyr	Ser	Ile	Ser	Phe	Leu
	50						55					60			

Lys	Gln	Leu	Ile	Ala	Gly	Lys	Leu	Gln	Glu	Ser	Val	Pro	Asp	Pro	Glu
	65				70					75					80

Leu	Ile	Asp	Leu	Ile	Tyr	Cys	Gly	Arg	Lys	Leu	Lys	Asp	Asp	Xaa	Thr
			85						90					95	

Leu	Thr	Ser	Thr	Val	Phe	Asn	Leu	Ala	Pro	His	Pro	Cys	Ser	Xaa	Glu
			100					105					110		

Xaa Leu

<210> 489

<211> 149

<212> PRT

<213> Homo sapiens

<220>

440

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 489

Ser Thr His Ala Ser Glu Asp Val Leu Ala Ala Pro Ser Gly Cys Arg
 1 5 10 15

Ala Ser Arg Pro Pro Thr Ser Gly Arg Glu Gln Phe Trp Ala Arg Gly
 20 25 30

Leu Ala Ala Ala Asp Met Thr Lys Gly Leu Val Leu Gly Ile Tyr Ser
 35 40 45

Lys Asp Lys Glu Asp Asp Val Pro Gln Phe Thr Ser Ala Gly Glu Asn
 50 55 60

Phe Asp Lys Leu Val Ser Gly Lys Leu Arg Glu Ile Leu Asn Ile Ser
 65 70 75 80

Gly Pro Pro Leu Lys Ala Gly Lys Thr Arg Thr Phe Tyr Gly Leu His
 85 90 95

Glu Asp Phe Pro Ser Val Val Val Val Gly Leu Gly Arg Lys Ala Ala
 100 105 110

Gly Val Asp Asp Gln Glu Asn Trp Xaa Glu Gly Lys Glu Asn Ile Arg
 115 120 125

Val Ala Met Gln Arg Gly Ala Gly Arg Phe Gln Asp Leu Xaa Ile Ser
 130 135 140

Ser Val Glu Gly Gly
 145

<210> 490

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (311)

<223> Xaa equals any of the naturally occurring L-amino acids

441

<400> 490

Arg Arg Arg Ser Arg Gly Leu Ile Pro Gly Arg Ala Pro Gly Arg Arg
 1 5 10 15

Arg Pro Arg Ala His Glu Val Ala Arg Ala Pro Pro Pro Ile Ala Met
 20 25 30

Asp Arg Met Lys Lys Ile Lys Arg Gln Leu Ser Met Thr Leu Arg Gly
 35 40 45

Gly Arg Gly Ile Asp Lys Thr Asn Gly Ala Pro Glu Gln Ile Gly Leu
 50 55 60

Asp Glu Ser Gly Gly Gly Gly Gly Ser Asp Pro Gly Glu Ala Pro Thr
 65 70 75 80

Arg Ala Ala Pro Gly Glu Leu Arg Ser Ala Arg Gly Pro Leu Ser Ser
 85 90 95

Ala Pro Glu Ile Val His Glu Asp Leu Lys Met Gly Ser Asp Gly Glu
 100 105 110

Ser Asp Gln Ala Ser Ala Thr Ser Ser Asp Glu Val Gln Ser Pro Val
 115 120 125

Arg Val Arg Met Arg Asn His Pro Pro Arg Lys Ile Ser Thr Glu Asp
 130 135 140

Ile Asn Lys Arg Leu Ser Leu Pro Ala Asp Ile Arg Leu Pro Glu Gly
 145 150 155 160

Tyr Leu Glu Lys Leu Thr Leu Asn Ser Pro Ile Phe Asp Lys Pro Leu
 165 170 175

Ser Arg Arg Leu Arg Arg Val Ser Leu Ser Glu Ile Gly Phe Gly Lys
 180 185 190

Leu Glu Thr Tyr Ile Lys Leu Asp Lys Leu Gly Glu Gly Thr Tyr Ala
 195 200 205

Thr Val Tyr Lys Gly Lys Ser Lys Leu Thr Asp Asn Leu Val Ala Leu
 210 215 220

Lys Glu Ile Arg Leu Glu His Glu Glu Gly Ala Pro Cys Thr Ala Ile
 225 230 235 240

Arg Glu Val Ser Leu Leu Lys Asp Leu Lys His Ala Asn Ile Val Thr
 245 250 255

Leu His Asp Ile Ile His Thr Glu Lys Ser Leu Thr Leu Val Phe Glu

442

260	265	270
Tyr Leu Asp Lys Asp Leu Lys Gln Tyr Leu Asp Asp Cys Gly Asn Ile		
275	280	285
Ile Asn Met His Asn Val Lys Leu Phe Leu Phe Gln Leu Leu Arg Gly		
290	295	300
Leu Ala Tyr Cys His Arg Xaa Lys Val Leu His Arg Asp Leu Lys Pro		
305	310	315
Gln Asn Leu Leu Ile Asn Glu Arg Gly Glu Leu Lys Leu Ala Asp Phe		
325	330	335
Gly Leu Ala Arg Ala Lys Ser Ile Pro Thr Lys Thr Tyr Ser Asn Glu		
340	345	350
Val Val Thr Leu Trp Tyr Arg Pro Pro Asp Ile Leu Leu Gly Ser Thr		
355	360	365
Asp Tyr Ser Thr Gln Ile Asp Met Trp Gly Val Gly Cys Ile Phe Tyr		
370	375	380
Glu Met Ala Thr Gly Arg Pro Leu Phe Pro Gly Ser Thr Val Glu Glu		
385	390	395
Gln Leu His Phe Ile Phe Arg Ile Leu Gly Thr Pro Thr Glu Glu Thr		
405	410	415
Trp Pro Gly Ile Leu Ser Asn Glu Glu Phe Lys Thr Tyr Asn Tyr Pro		
420	425	430
Lys Tyr Arg Ala Glu Ala Leu Leu Ser His Ala Pro Arg Leu Asp Ser		
435	440	445
Asp Gly Ala Asp Leu Leu Thr Lys Leu Leu Gln Phe Glu Gly Arg Asn		
450	455	460
Arg Ile Ser Ala Glu Asp Ala Met Lys His Pro Phe Phe Leu Ser Leu		
465	470	475
Gly Glu Arg Ile His Lys Leu Pro Asp Thr Thr Ser Ile Phe Ala Leu		
485	490	495
Lys Glu Ile Gln Leu Gln Lys Glu Ala Ser Leu Arg Ser Ser Ser Met		
500	505	510
Pro Asp Ser Gly Arg Pro Ala Phe Arg Val Val Asp Thr Glu Phe		
515	520	525

443

<210> 491
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (125)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 491
 Cys Thr Arg Ala His Pro Lys Asn Leu Val Glu Lys Gly Ile Leu Thr
 1 5 10 15
 Thr Glu Lys Gln Asn Phe Leu Leu Phe Asp Met Thr Thr His Pro Val
 20 25 30
 Thr Asn Thr Thr Glu Lys Gln Arg Leu Val Lys Lys Leu Gln Asp Ser
 35 40 45
 Val Leu Glu Arg Trp Val Asn Asp Pro Gln Arg Met Asp Lys Arg Thr
 50 55 60
 Leu Ala Leu Leu Val Leu Ala His Ser Ser Asp Val Leu Glu Asn Val
 65 70 75 80
 Phe Ser Ser Leu Thr Asp Asp Lys Tyr Asp Val Ala Met Asn Arg Ala
 85 90 95
 Lys Asp Leu Val Glu Leu Asp Pro Glu Val Glu Gly Thr Lys Pro Ser
 100 105 110
 Ala Thr Glu Met Ile Trp Ala Val Leu Ala Ala Phe Xaa
 115 120 125

<210> 492
 <211> 53
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (49)

444

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 492

Val	Ser	Xaa	Ser	Ile	Leu	Ala	Leu	Leu	Phe	Asn	Thr	Asp	Ala	Leu	Phe
1				5					10					15	

Ser	Arg	Val	Tyr	Glu	Ser	Leu	Ser	Asp	Asn	His	Gly	Leu	Gln	Glu	Gln
			20					25					30		

Thr	Val	Glu	Lys	Leu	Phe	Phe	Gln	Trp	Lys	Ser	Trp	Val	Gln	Glu	Met
		35					40					45			

Xaa	Gly	Xaa	Leu	Lys
				50

<210> 493

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (68)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

445

<400> 493

Pro Gly Phe Phe Phe Gln Met Leu Val His Thr Tyr Ser Ser Met Asp
 1 5 10 15

Arg His Asp Gly Val Pro Ser His Ser Ser Arg Leu Ser Gln Leu Gly
 20 25 30

Ser Val Ser Gln Gly Pro Tyr Ser Ser Ala Pro Pro Leu Ser His Thr
 35 40 45

Pro Ser Ser Asp Phe Gln Pro Pro Tyr Phe Pro Xaa Pro Tyr Gln Pro
 50 55 60

Leu Pro Xaa Xaa Gln Ser Gln Asp Pro Tyr Ser His Val Xaa Xaa Pro
 65 70 75 80

Tyr Pro

<210> 494

<211> 290

<212> PRT

<213> Homo sapiens

<400> 494

Tyr Lys Asp Trp Leu Thr Lys Met Ser Gly Lys His Asp Val Gly Ala
 1 5 10 15

Tyr Met Leu Met Tyr Lys Gly Ala Asn Arg Thr Glu Thr Val Thr Ser
 20 25 30

Phe Arg Lys Arg Glu Ser Lys Val Pro Ala Asp Leu Leu Lys Arg Ala
 35 40 45

Phe Val Arg Met Ser Thr Ser Pro Glu Ala Phe Leu Ala Leu Arg Ser
 50 55 60

His Phe Ala Ser Ser His Ala Leu Ile Cys Ile Ser His Trp Ile Leu
 65 70 75 80

Gly Ile Gly Asp Arg His Leu Asn Asn Phe Met Val Ala Met Glu Thr
 85 90 95

Gly Gly Val Ile Gly Ile Asp Phe Gly His Ala Phe Gly Ser Ala Thr
 100 105 110

Gln Phe Leu Pro Val Pro Glu Leu Met Pro Phe Arg Leu Thr Arg Gln
 115 120 125

446

Phe Ile Asn Leu Met Leu Pro Met Lys Glu Thr Gly Leu Met Tyr Ser
 130 135 140

Ile Met Val His Ala Leu Arg Ala Phe Arg Ser Asp Pro Gly Leu Leu
 145 150 155 160

Thr Asn Thr Met Asp Val Phe Val Lys Glu Pro Ser Phe Asp Trp Lys
 165 170 175

Asn Phe Glu Gln Lys Met Leu Lys Lys Gly Gly Ser Trp Ile Gln Glu
 180 185 190

Ile Asn Val Ala Glu Lys Asn Trp Tyr Pro Arg Gln Lys Ile Cys Tyr
 195 200 205

Ala Lys Arg Lys Leu Ala Gly Ala Asn Pro Ala Val Ile Thr Cys Asp
 210 215 220

Glu Leu Leu Leu Gly His Glu Lys Ala Pro Ala Phe Arg Asp Tyr Val
 225 230 235 240

Ala Val Ala Arg Gly Ser Lys Asp His Asn Ile Arg Ala Gln Glu Pro
 245 250 255

Glu Ser Gly Leu Ser Glu Glu Thr Gln Val Lys Cys Leu Met Asp Gln
 260 265 270

Ala Thr Asp Pro Asn Ile Leu Gly Arg Thr Trp Glu Gly Trp Glu Pro
 275 280 285

Trp Met
 290

<210> 495

<211> 156

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (148)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 495

Cys Gln Ser His Pro Leu Pro Gly Gly Pro Ala Cys Pro Cys Leu Ala
 1 5 10 15

Cys His Ile Thr Leu Leu Phe Gly Arg Pro Trp Leu Ile Lys Glu Val

447

	20		25		30
Leu Val Val Ser Gln Ala Lys Trp Asn Leu Glu Thr Val Lys Lys Val					
	35		40		45
Gln Ile Thr Leu Asn Cys Ile Gln Glu Val His Phe Phe Pro Ile Val					
	50		55		60
Arg Gly Ser Trp Ser Leu Arg Asp Ala Arg Leu Glu Ser Asp Tyr Ile					
	65		70		75
					80
Ile Ile Gln Asn Gly Asn Ser Gln Gly Asn Ala Phe Phe His Phe Ile					
		85		90	
					95
Arg Phe Phe Tyr Pro His Cys Thr Pro Ser Pro Ser Pro Leu Pro Ile					
	100		105		110
Trp Met Ala Ser Gln Lys Leu Gly Pro Ser Pro Pro Cys Leu Gly Gly					
	115		120		125
Gly Gln Ser Pro Leu Thr Ala Glu Ala Ala Leu Leu Ser Ser Ala Val					
	130		135		140
Leu Pro Leu Xaa Lys Cys Leu Gln Arg Val Met Ser					
	145		150		155

<210> 496

<211> 251

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 496

Glu Glu Leu Leu Arg Ala Gln Glu Ala Pro Gly Gln Ala Glu Pro Pro
1 5 10 15

Ala Ala Ala Glu Val Gln Gly Ala Gly Asn Glu Asn Glu Pro Arg Glu
20 25 30

Ala Asp Lys Ser His Pro Glu Gln Arg Xaa Leu Arg Pro Arg Leu Cys
35 40 45

Thr Met Lys Lys Gly Pro Ser Gly Tyr Gly Phe Asn Leu His Ser Asp
50 55 60

448

Lys Ser Lys Pro Gly Gln Phe Ile Arg Ser Val Asp Pro Asp Ser Pro
 65 70 75 80
 Ala Glu Ala Ser Gly Leu Arg Ala Gln Asp Arg Ile Val Glu Val Asn
 85 90 95
 Gly Val Cys Met Glu Gly Lys Gln His Gly Asp Val Val Ser Ala Ile
 100 105 110
 Arg Ala Gly Gly Asp Glu Thr Lys Leu Leu Val Val Asp Arg Glu Thr
 115 120 125
 Asp Glu Phe Phe Lys Lys Cys Arg Val Ile Pro Ser Gln Glu His Leu
 130 135 140
 Asn Gly Pro Leu Pro Val Pro Phe Thr Asn Gly Glu Ile Gln Lys Glu
 145 150 155 160
 Asn Ser Arg Glu Ala Leu Ala Glu Ala Ala Leu Glu Ser Pro Arg Pro
 165 170 175
 Ala Leu Val Arg Ser Ala Ser Ser Asp Thr Ser Glu Glu Leu Asn Ser
 180 185 190
 Gln Asp Ser Pro Pro Lys Gln Asp Ser Thr Ala Pro Ser Ser Thr Ser
 195 200 205
 Ser Ser Asp Pro Ile Leu Asp Phe Asn Ile Ser Leu Ala Met Ala Lys
 210 215 220
 Glu Arg Ala His Gln Lys Arg Ser Ser Lys Arg Ala Pro Gln Met Asp
 225 230 235 240
 Trp Ser Lys Lys Asn Glu Leu Phe Ser Asn Leu
 245 250

<210> 497

<211> 48

<212> PRT

<213> Homo sapiens

<400> 497

Asn Gly Ala Glu Ala Val Ser Thr Glu Ala Lys Met Thr Ala Phe Pro
 1 5 10 15
 Asp Trp Pro Trp Leu Phe His Thr Leu Cys Asp Pro Cys Pro Met Thr
 20 25 30
 Leu Trp Leu Thr Leu Pro Glu Ala Met Thr Thr Ala Ala Phe Cys His

449

35

40

45

<210> 498

<211> 373

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (337)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 498

Gly	Thr	Arg	Gly	Ser	Arg	Ala	Ser	Gly	Val	Cys	Ala	Arg	Gly	Cys	Leu
1				5					10					15	

Asp	Ser	Ala	Gly	Pro	Trp	Thr	Met	Ser	Arg	Ala	Leu	Arg	Pro	Pro	Leu
			20					25					30		

Pro	Pro	Leu	Cys	Phe	Phe	Leu	Leu	Leu	Leu	Ala	Ala	Ala	Gly	Ala	Arg
		35						40					45		

Ala	Gly	Gly	Tyr	Glu	Thr	Cys	Pro	Thr	Val	Gln	Pro	Asn	Met	Leu	Asn
	50					55					60				

Val	His	Leu	Leu	Pro	His	Thr	His	Asp	Asp	Val	Gly	Trp	Leu	Lys	Thr
65					70					75					80

Val	Asp	Gln	Tyr	Phe	Tyr	Gly	Ile	Lys	Asn	Asp	Ile	Gln	His	Ala	Gly
			85						90					95	

Val	Gln	Tyr	Ile	Leu	Asp	Ser	Val	Ile	Ser	Ala	Leu	Leu	Ala	Asp	Pro
			100					105					110		

Thr	Arg	Arg	Phe	Ile	Tyr	Val	Glu	Ile	Ala	Phe	Phe	Ser	Arg	Trp	Trp
		115					120						125		

His	Gln	Gln	Thr	Asn	Ala	Thr	Gln	Glu	Val	Val	Arg	Asp	Leu	Val	Arg
	130					135					140				

Gln	Gly	Arg	Leu	Glu	Phe	Ala	Asn	Gly	Gly	Trp	Val	Met	Asn	Asp	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

450

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145              150              155              160
Ala Ala Thr His Tyr Gly Ala Ile Val Asp Gln Met Thr Leu Gly Leu
              165              170              175
Arg Phe Leu Glu Asp Thr Phe Gly Asn Asp Gly Arg Pro Arg Val Ala
              180              185              190
Trp His Ile Asp Pro Phe Gly His Ser Arg Glu Gln Ala Ser Leu Phe
              195              200              205
Ala Gln Met Gly Phe Asp Gly Phe Phe Phe Gly Arg Leu Asp Tyr Gln
              210              215              220
Asp Lys Trp Val Arg Met Gln Lys Leu Glu Met Glu Gln Val Trp Arg
225              230              235              240
Ala Ser Thr Ser Leu Lys Pro Pro Thr Ala Asp Leu Phe Thr Gly Val
              245              250              255
Leu Pro Asn Gly Tyr Asn Pro Pro Arg Asn Leu Cys Trp Asp Val Leu
              260              265              270
Cys Val Asp Gln Pro Leu Val Glu Asp Pro Arg Ser Pro Glu Tyr Asn
              275              280              285
Ala Lys Glu Leu Val Asp Tyr Phe Leu Asn Val Ala Thr Ala Gln Gly
              290              295              300
Arg Tyr Tyr Arg Thr Asn His Thr Val Met Thr Met Gly Ser Asp Phe
305              310              315              320
Gln Tyr Glu Asn Ala Asn Met Trp Phe Lys Asn Leu Asp Lys Leu Ile
              325              330              335
Xaa Leu Val Asn Ala Gln Gly Lys Arg Lys Gln Cys Pro Cys Ser Leu
              340              345              350
Leu His Pro Arg Leu Leu Pro Leu Gly Ala Glu Gln Gly Gln Pro His
              355              360              365
Leu Val Ser Xaa Thr
              370

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<210> 499

<211> 238

<212> PRT

<213> Homo sapiens

451

<400> 499

Ala Leu Pro Gly Pro Asp Trp His Gly Ala Gly Ala Ala Asp Arg Gly
 1 5 10 15
 Pro Ala Ala Pro Pro Arg Pro Gly Pro Cys Ala Tyr Ala Ala His Gly
 20 25 30
 Arg Gly Ala Leu Ala Glu Ala Ala Arg Arg Cys Leu His Asp Ile Ala
 35 40 45
 Leu Ala His Arg Ala Ala Thr Ala Ala Arg Pro Pro Ala Pro Pro Pro
 50 55 60
 Ala Pro Gln Pro Pro Ser Pro Thr Pro Ser Pro Pro Arg Pro Thr Leu
 65 70 75 80
 Ala Arg Glu Asp Asn Glu Glu Asp Glu Asp Glu Pro Thr Glu Thr Glu
 85 90 95
 Thr Ser Gly Glu Gln Leu Gly Ile Ser Asp Asn Gly Gly Leu Phe Val
 100 105 110
 Met Asp Glu Asp Ala Thr Leu Gln Asp Leu Pro Pro Phe Cys Glu Ser
 115 120 125
 Asp Pro Glu Ser Thr Asp Asp Gly Ser Leu Ser Glu Glu Thr Pro Ala
 130 135 140
 Gly Pro Pro Thr Cys Ser Val Pro Pro Ala Ser Ala Leu Pro Thr Gln
 145 150 155 160
 Gln Tyr Ala Lys Ser Leu Pro Val Ser Val Pro Val Trp Gly Phe Lys
 165 170 175
 Glu Lys Arg Thr Glu Ala Arg Ser Ser Asp Glu Glu Asn Gly Pro Pro
 180 185 190
 Ser Ser Pro Asp Leu Asp Arg Ile Ala Ala Ser Met Arg Ala Leu Val
 195 200 205
 Leu Arg Glu Ala Glu Asp Thr Gln Val Phe Gly Asp Leu Pro Arg Pro
 210 215 220
 Arg Leu Asn Thr Ser Asp Phe Gln Lys Leu Lys Arg Lys Tyr
 225 230 235

<210> 500

<211> 198

<212> PRT

452

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 500

Asn	Ser	Ala	Glu	Leu	Ser	Pro	Gly	Leu	Cys	Ser	Pro	Thr	Pro	Thr	Glu
1				5					10					15	

Ala	Arg	Ala	Gly	Asp	Ala	Gly	Pro	Ala	Ala	Arg	Ser	Arg	Lys	Gln	Asn
			20					25					30		

Pro	Gln	Ser	Pro	Pro	Cys	Cys	Cys	Val	Asp	Asp	Thr	Trp	Ala	Gln	Ala
	35						40					45			

Glu	Val	Gly	Pro	Val	Thr	Ser	Cys	Thr	Gly	Phe	Val	Glu	Gly	Ser	Ser
	50					55					60				

Arg	Thr	Gly	Gly	Met	Gly	Ser	Ala	Cys	Ile	Lys	Val	Thr	Lys	Tyr	Phe
65					70					75					80

Leu	Phe	Leu	Phe	Asn	Leu	Ile	Phe	Phe	Ile	Leu	Gly	Ala	Xaa	Ile	Leu
				85					90					95	

Gly	Phe	Gly	Val	Trp	Ile	Leu	Ala	Asp	Lys	Ser	Ser	Phe	Ile	Ser	Val
			100					105					110		

Leu	Gln	Thr	Ser	Ser	Ser	Ser	Leu	Arg	Met	Gly	Ala	Tyr	Val	Phe	Ile
		115					120					125			

Gly	Val	Gly	Ala	Val	Thr	Met	Leu	Met	Gly	Phe	Leu	Gly	Cys	Ile	Gly
	130					135					140				

Ala	Val	Asn	Glu	Val	Arg	Cys	Leu	Leu	Gly	Leu	Xaa	Phe	Ala	Phe	Leu
145					150					155					160

Leu	Leu	Ile	Leu	Ile	Ala	Gln	Val	Thr	Ala	Gly	Ala	Leu	Phe	Tyr	Phe
			165						170					175	

Asn	Met	Gly	Lys	Val	Ser	Pro	Ser	Leu	Pro	Pro	Ser	Ser	Leu	Gly	Trp
		180						185					190		

Thr	Asn	His	Gly	Gly	Asp
			195		

453

<210> 501
 <211> 169
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 501
 Ser Ser Ala Ser Thr Asn Met Ser Arg Gly Ser Ser Ala Gly Phe Asp
 1 5 10 15
 Arg His Ile Thr Ile Phe Ser Pro Glu Gly Arg Leu Tyr Gln Val Glu
 20 25 30
 Tyr Ala Phe Lys Ala Ile Asn Gln Gly Gly Leu Thr Ser Val Ala Val
 35 40 45
 Arg Gly Lys Asp Cys Ala Val Ile Val Thr Gln Lys Lys Val Pro Asp
 50 55 60
 Lys Leu Leu Asp Ser Ser Thr Val Thr His Leu Phe Lys Ile Thr Glu
 65 70 75 80
 Asn Ile Gly Cys Val Met Thr Gly Met Thr Ala Asp Ser Arg Ser Gln
 85 90 95
 Val Gln Arg Ala Arg Tyr Glu Ala Ala Asn Trp Lys Tyr Lys Tyr Gly
 100 105 110
 Tyr Glu Ile Pro Val Asp Met Leu Cys Lys Arg Ile Ala Asp Ile Ser
 115 120 125
 Gln Val Tyr Thr Gln Asn Ala Glu Met Arg Pro Leu Gly Cys Cys Met
 130 135 140
 Ile Leu Ile Gly Ile Asp Glu Glu Gln Gly Pro Gln Val Tyr Lys Cys
 145 150 155 160
 Asp Pro Ala Gly Xaa Tyr Cys Gly Val
 165

<210> 502
 <211> 507

454

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (361)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (461)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 502

Val	Arg	Gln	Leu	Cys	Arg	Pro	Ala	Glu	Xaa	Asp	Ser	Val	Met	Ala	Glu
1				5					10					15	

Gln	Val	Ala	Leu	Ser	Arg	Thr	Gln	Val	Cys	Gly	Ile	Leu	Arg	Glu	Glu
			20					25					30		

Leu	Phe	Gln	Gly	Asp	Ala	Phe	His	Gln	Ser	Asp	Thr	His	Ile	Phe	Ile
		35					40					45			

Ile	Met	Gly	Ala	Ser	Gly	Asp	Leu	Ala	Lys	Lys	Lys	Ile	Tyr	Pro	Thr
	50					55					60				

Ile	Trp	Trp	Leu	Phe	Arg	Asp	Gly	Leu	Leu	Pro	Glu	Asn	Thr	Phe	Ile
65					70					75					80

Val	Gly	Tyr	Ala	Arg	Ser	Arg	Leu	Thr	Val	Ala	Asp	Ile	Arg	Lys	Gln
				85					90					95	

Ser	Glu	Pro	Phe	Phe	Lys	Ala	Thr	Pro	Glu	Glu	Lys	Leu	Lys	Leu	Glu
			100					105					110		

Asp	Phe	Phe	Ala	Arg	Asn	Ser	Tyr	Val	Ala	Gly	Gln	Tyr	Asp	Asp	Ala
		115					120					125			

Ala	Ser	Tyr	Gln	Arg	Leu	Asn	Ser	His	Met	Asn	Ala	Leu	His	Leu	Gly
	130					135					140				

Ser	Gln	Ala	Asn	Arg	Leu	Phe	Tyr	Leu	Ala	Leu	Pro	Pro	Thr	Val	Tyr
145					150					155					160

Glu	Ala	Val	Thr	Lys	Asn	Ile	His	Glu	Ser	Cys	Met	Ser	Gln	Ile	Gly
				165				170						175	

455

Trp Asn Arg Ile Ile Val Glu Lys Pro Phe Gly Arg Asp Leu Gln Ser
 180 185 190
 Ser Asp Arg Leu Ser Asn His Ile Ser Ser Leu Phe Arg Glu Asp Gln
 195 200 205
 Ile Tyr Arg Ile Asp His Tyr Leu Gly Lys Glu Met Val Gln Asn Leu
 210 215 220
 Met Val Leu Arg Phe Ala Asn Arg Ile Phe Gly Pro Ile Trp Asn Arg
 225 230 235 240
 Asp Asn Ile Ala Cys Val Ile Leu Thr Phe Lys Glu Pro Phe Gly Thr
 245 250 255
 Glu Gly Arg Gly Gly Tyr Phe Asp Glu Phe Gly Ile Ile Arg Asp Val
 260 265 270
 Met Gln Asn His Leu Leu Gln Met Leu Cys Leu Val Ala Met Glu Lys
 275 280 285
 Pro Ala Ser Thr Asn Ser Asp Asp Val Arg Asp Glu Lys Val Lys Val
 290 295 300
 Leu Lys Cys Ile Ser Glu Val Gln Ala Asn Asn Val Val Leu Gly Gln
 305 310 315 320
 Tyr Val Gly Asn Pro Asp Gly Glu Gly Glu Ala Thr Lys Gly Tyr Leu
 325 330 335
 Asp Asp Pro Thr Val Pro Arg Gly Ser Thr Thr Ala Thr Phe Ala Ala
 340 345 350
 Val Val Leu Tyr Val Glu Asn Glu Xaa Trp Asp Gly Val Pro Phe Ile
 355 360 365
 Leu Arg Cys Gly Lys Ala Leu Asn Glu Arg Lys Ala Glu Val Arg Leu
 370 375 380
 Gln Phe His Asp Val Ala Gly Asp Ile Phe His Gln Gln Cys Lys Arg
 385 390 395 400
 Asn Glu Leu Val Ile Arg Val Gln Pro Asn Glu Ala Val Tyr Thr Lys
 405 410 415
 Met Met Thr Lys Lys Pro Gly Met Phe Phe Asn Pro Glu Glu Ser Glu
 420 425 430
 Leu Asp Leu Thr Tyr Gly Asn Arg Tyr Lys Asn Val Lys Leu Pro Asp
 435 440 445

456

Ala Tyr Glu Arg Leu Ile Leu Asp Val Phe Cys Gly Xaa Gln Met His
 450 455 460

Phe Val Arg Arg Thr Ser Ser Val Arg Pro Gly Val Phe Ser Pro His
 465 470 475 480

Cys Cys Thr Arg Leu Ser Trp Arg Ser Pro Ser Pro Ser Pro Ile Phe
 485 490 495

Met Ala Ala Glu Ala Pro Arg Arg Gln Thr Ser
 500 505

<210> 503

<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 503

Gly Pro Glu Val Leu Pro Glu Pro Arg Val Pro Arg Glu Ala Leu Ala
 1 5 10 15

Phe Ile Ile Arg Ser Phe Gly Gly Glu Val Ser Trp Asp Lys Ser Leu
 20 25 30

Cys Ile Gly Ala Thr Tyr Asp Val Thr Asp Ser Arg Ile Thr His Gln
 35 40 45

Ile Val Asp Arg Pro Gly Gln Gln Thr Ser Val Ile Gly Arg Cys Tyr
 50 55 60

Val Gln Pro Gln Xaa Val Phe Asp Ser Val Asn Ala Arg Leu Leu Leu
 65 70 75 80

Pro Val Ala Glu Tyr Phe Ser Gly Val Gln Leu Pro Pro His Leu Ser
 85 90 95

Pro Phe Val Thr Glu Lys Glu Gly Asp Tyr Val Pro Pro Glu Lys Leu
 100 105 110

Lys Leu Leu Ala Leu Gln Arg Gly Glu Asp Pro Gly Asn Leu Asn Glu
 115 120 125

Ser Glu Glu Glu Glu Glu Asp Asp Asn Asn Glu Gly Asp Gly Asp

457

130	135	140
Glu Glu Gly Glu Asn Glu Glu Glu Glu Glu Asp Ala Glu Ala Gly Ser		
145	150	155 160
Glu Lys Glu Glu Glu Ala Arg Leu Ala Ala Leu Glu Glu Gln Arg Met		
	165	170 175
Glu Gly Lys Lys Pro Arg Val Met Ala Gly Thr Leu Lys Leu Glu Asp		
	180	185 190
Lys Gln Arg Leu Ala Gln Glu Glu Glu Ser Glu Ala Lys Arg Leu Ala		
	195	200 205
Ile Met Met Met Lys Lys Arg Glu Lys Tyr Leu Tyr Gln Lys Ile Met		
	210	215 220
Phe Gly Lys Arg Arg Lys Ile Arg Glu Ala Asn Lys Leu Ala Glu Lys		
	225	230 235 240
Arg Lys Ala His Asp Glu Ala Val Arg Ser Glu Lys Lys Ala Lys Lys		
	245	250 255
Ala Arg Pro Glu		
	260	

<210> 504

<211> 424

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (292)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (342)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 504

Leu Leu Gln Arg Cys Tyr Ala Phe Pro Gly His Arg Leu Ala His Ser
1 5 10 15

Gly Ser Asp Leu Ser Leu Leu Val Pro Glu Ile Glu Asp Met Tyr Ser
20 25 30

Ser Pro Tyr Leu Arg Pro Ser Glu Ser Pro Ile Thr Val Glu Val Asn

458

35	40	45																	
Cys	Thr	Asn	Pro	Gly	Thr	Arg	Tyr	Cys	Trp	Met	Ser	Thr	Gly	Leu	Tyr				
50						55					60								
Ile	Pro	Gly	Arg	Gln	Ile	Ile	Glu	Val	Ser	Leu	Pro	Glu	Ala	Ala	Ala				
65				70					75						80				
Ser	Ala	Asp	Leu	Lys	Ile	Gln	Ile	Gly	Cys	His	Thr	Asp	Asp	Leu	Thr				
				85					90					95					
Arg	Ala	Ser	Lys	Leu	Phe	Arg	Gly	Pro	Leu	Val	Ile	Asn	Arg	Cys	Cys				
			100					105					110						
Leu	Asp	Lys	Pro	Thr	Lys	Ser	Ile	Thr	Cys	Leu	Trp	Gly	Gly	Leu	Leu				
	115						120					125							
Tyr	Ile	Ile	Val	Pro	Gln	Asn	Ser	Lys	Leu	Gly	Ser	Val	Pro	Val	Thr				
	130					135					140								
Val	Lys	Gly	Ala	Val	His	Ala	Pro	Tyr	Tyr	Lys	Leu	Gly	Glu	Thr	Thr				
145					150				155					160					
Leu	Glu	Glu	Trp	Lys	Arg	Arg	Ile	Gln	Glu	Asn	Pro	Gly	Pro	Trp	Gly				
				165					170					175					
Glu	Leu	Ala	Thr	Asp	Asn	Ile	Ile	Leu	Thr	Val	Pro	Thr	Ala	Asn	Leu				
			180					185					190						
Arg	Thr	Leu	Glu	Asn	Pro	Glu	Pro	Leu	Leu	Arg	Leu	Trp	Asp	Glu	Val				
	195						200					205							
Met	Gln	Ala	Val	Ala	Arg	Leu	Gly	Ala	Glu	Pro	Phe	Pro	Leu	Arg	Leu				
	210					215					220								
Pro	Gln	Arg	Ile	Val	Ala	Asp	Val	Gln	Ile	Ser	Val	Gly	Trp	Met	His				
225					230				235					240					
Ala	Gly	Tyr	Pro	Ile	Met	Cys	His	Leu	Glu	Ser	Val	Gln	Glu	Leu	Ile				
				245					250					255					
Asn	Glu	Lys	Leu	Ile	Arg	Thr	Lys	Gly	Leu	Trp	Gly	Pro	Val	His	Glu				
	260							265					270						
Leu	Gly	Arg	Asn	Gln	Gln	Arg	Gln	Glu	Trp	Glu	Phe	Pro	Pro	His	Thr				
	275						280					285							
Thr	Glu	Ala	Xaa	Cys	Asn	Leu	Trp	Cys	Val	Tyr	Val	His	Glu	Thr	Val				
	290					295					300								
Leu	Gly	Ile	Pro	Arg	Ser	Arg	Ala	Asn	Ile	Ala	Leu	Trp	Pro	Pro	Val				

459

[illegible]

<210> 505

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 505

460

Leu His Gln Ser Leu Leu His Leu Glu Lys Thr Asn Glu Arg Lys Ser
 1 5 10 15
 Ile Phe Leu Ile His Tyr Pro Asn Asn Arg Thr Pro Tyr Arg Asn
 20 25 30
 Tyr Tyr His Tyr Val Ser Lys His Tyr Ile Pro Ile Thr Tyr Pro Thr
 35 40 45
 Xaa Ser Ile Ile Asp Xaa Ile Ser Ile Pro Thr Met Ile Ser Ala Leu
 50 55 60
 Asn Xaa Gln Asn Lys Xaa
 65 70

<210> 506

<211> 434

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (363)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 506

Ser Thr His Ala Ser Ala His Ala Ser Val Ser Thr Ala Ala Ala Ala
 1 5 10 15
 Ala Leu Ala Ala Ala Val Lys Ala Lys His Leu Ala Ala Val Glu
 20 25 30
 Glu Arg Lys Ile Lys Ser Leu Val Ala Leu Leu Val Glu Thr Gln Met
 35 40 45
 Lys Lys Leu Glu Ile Lys Leu Arg His Phe Glu Glu Leu Glu Thr Ile
 50 55 60

Met Asp Arg Glu Xaa Glu Ala Leu Glu Tyr Gln Arg Gln Gln Leu Leu

461

65		70		75		80
Ala Asp Arg Gln Ala Phe His Met Glu Gln Leu Lys Tyr Ala Glu Met						
	85			90		95
Arg Ala Arg Gln Gln His Phe Gln Gln Met His Gln Gln Gln Gln						
	100		105		110	
Pro Pro Pro Ala Leu Pro Pro Gly Ser Gln Pro Ile Pro Pro Thr Gly						
	115		120		125	
Ala Ala Gly Pro Pro Ala Xaa His Gly Leu Ala Val Ala Pro Ala Ser						
	130		135		140	
Val Val Pro Ala Pro Ala Gly Ser Gly Ala Pro Pro Gly Ser Leu Gly						
145		150		155		160
Pro Ser Glu Gln Ile Gly Gln Ala Gly Ser Thr Ala Gly Pro Gln Gln						
	165		170		175	
Gln Gln Pro Ala Gly Ala Pro Gln Pro Gly Ala Val Pro Pro Gly Val						
	180		185		190	
Pro Pro Pro Gly Pro His Gly Pro Ser Pro Phe Pro Asn Gln Gln Thr						
	195		200		205	
Pro Pro Ser Met Met Pro Gly Ala Val Pro Gly Ser Gly His Pro Gly						
	210		215		220	
Val Ala Gly Asn Ala Pro Leu Gly Leu Pro Phe Gly Met Pro Pro Pro						
225		230		235		240
Pro Pro Pro Pro Ala Pro Ser Ile Ile Pro Phe Gly Ser Leu Ala Asp						
	245		250		255	
Ser Ile Ser Ile Asn Leu Pro Ala Pro Pro Asn Leu His Gly His His						
	260		265		270	
His His Leu Pro Phe Ala Pro Gly Thr Leu Pro Pro Pro Asn Leu Pro						
	275		280		285	
Val Ser Met Ala Asn Pro Leu His Pro Asn Leu Pro Ala Thr Thr Thr						
	290		295		300	
Met Pro Ser Ser Leu Pro Leu Gly Pro Gly Leu Gly Ser Ala Ala Ala						
305		310		315		320
Gln Ser Pro Ala Ile Val Ala Ala Val Gln Gly Asn Leu Leu Pro Ser						
	325		330		335	
Ala Ser Pro Leu Pro Asp Pro Gly Thr Pro Leu Pro Pro Asp Pro Thr						

462

340								345								350			
Ala	Pro	Ser	Pro	Arg	His	Gly	His	Pro	Cys	Xaa	His	Leu	His	Ser	Glu				
355								360				365							
Glu	Pro	Ala	Arg	His	Leu	Ser	Pro	Ser	Pro	Pro	Val	Asp	Ile	Thr	Val				
370								375				380							
Pro	Gly	Thr	Ala	Leu	Pro	Pro	Pro	Leu	Gly	Pro	Ser	Pro	Ala	Trp	Arg				
385				390								395				400			
Val	His	His	Tyr	Val	Arg	Lys	Ala	Pro	Ser	Ala	Pro	Pro	Lys	Pro	Ser				
				405								410				415			
Pro	Cys	Leu	Thr	Glu	Ala	Cys	Ile	Phe	Ile	Ser	Asp	Tyr	Ser	Arg	Thr				
				420								425				430			
Ser Val																			

<210> 507

<211> 303

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (165)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (280)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 507

Glu Tyr Val Phe Pro Ala Lys Lys Lys Leu Gln Glu Tyr Arg Val Leu
1 5 10 15

Ile Thr Thr Leu Ile Thr Ala Gly Ser Trp Ser Arg Pro Ser Phe Pro
20 25 30

Leu Ile Thr Ser His Thr Ser Ser Ser Met Arg Leu Ala Thr Ala Trp
35 40 45

Ser Leu Arg Ser Leu Val Ala Ile Ala Gly Leu Met Glu Val Lys Glu
50 55 60

Thr Gly Asp Pro Gly Gly Gln Leu Val Leu Ala Gly Asp Pro Arg Gln

463

65		70		75		80
Leu Gly Pro Val	Leu Arg Ser Pro	Leu Thr Gln Lys His	Gly Leu Gly			
	85	90	95			
Tyr Ser Leu Leu	Glu Arg Leu Leu	Thr Tyr Asn Ser	Leu Tyr Lys Lys			
	100	105	110			
Gly Pro Asp Gly	Tyr Asp Pro Gln	Phe Ile Thr Lys	Leu Leu Arg Asn			
	115	120	125			
Tyr Arg Ser His	Pro Thr Ile Leu	Asp Ile Pro Asn	Gln Leu Tyr Tyr			
	130	135	140			
Glu Gly Glu Leu	Gln Ala Cys Ala	Asp Val Val Asp	Arg Glu Arg Phe			
145	150	155	160			
Cys Arg Trp Ala	Xaa Leu Pro Arg	Gln Gly Phe Pro	Ile Ile Phe His			
	165	170	175			
Gly Val Met Gly	Lys Asp Glu Arg	Glu Gly Asn Ser	Pro Ser Phe Phe			
	180	185	190			
Asn Pro Glu Glu	Ala Ala Thr Val	Thr Ser Tyr Leu	Lys Leu Leu Leu			
	195	200	205			
Ala Pro Ser Ser	Lys Lys Gly Lys	Ala Arg Leu Ser	Pro Arg Ser Val			
210	215	220				
Gly Val Ile Ser	Pro Tyr Arg Lys	Gln Val Glu Lys	Ile Arg Tyr Cys			
225	230	235	240			
Ile Thr Lys Leu	Asp Arg Glu Leu	Arg Gly Leu Asp	Asp Ile Lys Asp			
	245	250	255			
Leu Lys Val Gly	Ser Val Glu Glu	Phe Gln Gly Gln	Glu Arg Ser Val			
	260	265	270			
Ile Leu Ile Ser	Thr Val Arg Xaa	Ala Arg Ala Leu	Cys Ser Trp Ile			
	275	280	285			
Trp Thr Leu Ile	Trp Val Ser Leu	Arg Thr Pro Arg	Gly Ser Met			
	290	295	300			

<210> 508

<211> 250

<212> PRT

<213> Homo sapiens

464

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 508

Glu	Gln	Tyr	Leu	Pro	Leu	Thr	Glu	Glu	Glu	Leu	Glu	Lys	Glu	Ala	Xaa
1				5					10					15	

Lys	Val	Glu	Gly	Phe	Asp	Leu	Val	Gln	Lys	Pro	Ser	Tyr	Tyr	Val	Arg
		20						25					30		

Leu	Gly	Ser	Leu	Ser	Thr	Lys	Leu	His	Ser	Arg	Ala	Tyr	Gln	Gln	Ala
		35					40					45			

Leu	Ser	Arg	Val	Lys	Glu	Ala	Lys	Gln	Lys	Ser	Gln	Gln	Thr	Ile	Ser
	50					55					60				

Gln	Leu	His	Ser	Thr	Val	His	Leu	Ile	Glu	Phe	Ala	Arg	Lys	Asn	Val
65					70					75					80

Tyr	Ser	Ala	Asn	Gln	Lys	Ile	Gln	Asp	Ala	Gln	Asp	Lys	Leu	Tyr	Leu
			85						90					95	

Ser	Trp	Val	Glu	Trp	Lys	Arg	Ser	Ile	Gly	Tyr	Asp	Asp	Thr	Asp	Glu
		100						105					110		

Ser	His	Cys	Ala	Glu	His	Ile	Glu	Ser	Arg	Thr	Leu	Ala	Ile	Ala	Arg
		115					120					125			

Asn	Leu	Thr	Gln	Gln	Leu	Gln	Thr	Thr	Cys	His	Thr	Leu	Leu	Ser	Asn
	130						135					140			

Ile	Gln	Gly	Val	Pro	Gln	Asn	Ile	Gln	Asp	Gln	Ala	Lys	His	Met	Gly
145					150					155					160

Val	Met	Ala	Gly	Asp	Ile	Tyr	Ser	Val	Phe	Arg	Asn	Ala	Ala	Ser	Phe
			165						170					175	

Lys	Glu	Val	Ser	Asp	Ser	Leu	Leu	Thr	Ser	Ser	Lys	Gly	Gln	Leu	Gln
		180						185					190		

Lys	Met	Lys	Glu	Ser	Leu	Asp	Asp	Val	Met	Asp	Tyr	Leu	Val	Asn	Asn
	195						200					205			

Thr	Pro	Leu	Asn	Trp	Leu	Val	Gly	Pro	Phe	Tyr	Pro	Gln	Leu	Thr	Glu
	210					215					220				

Ser	Gln	Asn	Ala	Gln	Asp	Gln	Gly	Ala	Glu	Met	Asp	Lys	Ser	Ser	Gln
225					230					235					240

465

Glu Thr Gln Arg Ser Glu His Lys Thr His
245 250

<210> 509

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 509

His Glu Leu Trp Gly Cys Gly Pro Val Thr Pro Arg Arg Thr Ala Pro
1 5 10 15

Ser Gly Trp Ala Gln Ala Pro Leu Ser Asp Thr Ala Gln Val Tyr Met
20 25 30

Glu Leu Gln Gly Leu Val Asp Pro Gln Ile Gln Leu Pro Leu Leu Ala
35 40 45

Ala Arg Ser Thr Ser Cys Arg Ser Ser Leu Ile Ala Ser Gln Pro Gly
50 55 60

Pro His Gln Lys Gly Arg Gln Gly Leu Arg Gly Asn Lys Ser Phe Leu
65 70 75 80

Pro Ser Ser Trp Asn Cys Gln Asn Trp Thr Arg Gln Pro Leu Thr Ser
85 90 95

Xaa Ser

<210> 510

<211> 392

<212> PRT

<213> Homo sapiens

<400> 510

Gly Ala Met Arg Gly Asp Arg Gly Arg Gly Arg Gly Gly Arg Phe Gly
1 5 10 15

Ser Arg Gly Gly Pro Gly Gly Gly Phe Arg Pro Phe Val Pro His Ile
20 25 30

466

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Pro Phe Asp Phe Tyr Leu Cys Glu Met Ala Phe Pro Arg Val Lys Pro
    35                      40                      45

Ala Pro Asp Glu Thr Ser Phe Ser Glu Ala Leu Leu Lys Arg Asn Gln
    50                      55                      60

Asp Leu Ala Pro Asn Ser Ala Glu Gln Ala Ser Ile Leu Ser Leu Val
    65                      70                      75                      80

Thr Lys Ile Asn Asn Val Ile Asp Asn Leu Ile Val Ala Pro Gly Thr
    85                      90                      95

Phe Glu Val Gln Ile Glu Glu Val Arg Gln Val Gly Ser Tyr Lys Lys
    100                     105                     110

Gly Thr Met Thr Thr Gly His Asn Val Ala Asp Leu Val Val Ile Leu
    115                     120                     125

Lys Ile Leu Pro Thr Leu Glu Ala Val Ala Ala Leu Gly Asn Lys Val
    130                     135                     140

Val Glu Ser Leu Arg Ala Gln Asp Pro Ser Glu Val Leu Thr Met Leu
    145                     150                     155                     160

Thr Asn Glu Thr Gly Phe Glu Ile Ser Ser Ser Asp Ala Thr Val Lys
    165                     170                     175

Ile Leu Ile Thr Thr Val Pro Pro Asn Leu Arg Lys Leu Asp Pro Glu
    180                     185                     190

Leu His Leu Asp Ile Lys Val Leu Gln Ser Ala Leu Ala Ala Ile Arg
    195                     200                     205

His Ala Arg Trp Phe Glu Glu Asn Ala Ser Gln Ser Thr Val Lys Val
    210                     215                     220

Leu Ile Arg Leu Leu Lys Asp Leu Arg Ile Arg Phe Pro Gly Phe Glu
    225                     230                     235                     240

Pro Leu Thr Pro Trp Ile Leu Asp Leu Leu Gly His Tyr Ala Val Met
    245                     250                     255

Asn Asn Pro Thr Arg Gln Pro Leu Ala Leu Asn Val Ala Tyr Arg Arg
    260                     265                     270

Cys Leu Gln Ile Leu Ala Ala Gly Leu Phe Leu Pro Gly Ser Val Gly
    275                     280                     285

Ile Thr Asp Pro Cys Glu Ser Gly Asn Phe Arg Val His Thr Val Met
    290                     295                     300

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467

Thr Leu Glu Gln Gln Asp Met Val Cys Tyr Thr Ala Gln Thr Leu Val
 305 310 315 320

Arg Ile Leu Ser His Gly Gly Phe Arg Lys Ile Leu Gly Gln Glu Gly
 325 330 335

Asp Ala Ser Tyr Leu Ala Ser Glu Ile Ser Thr Trp Asp Gly Val Ile
 340 345 350

Val Thr Pro Ser Glu Lys Ala Tyr Glu Lys Pro Pro Glu Lys Lys Glu
 355 360 365

Gly Glu Glu Glu Glu Glu Asn Thr Glu Glu Pro Pro Gln Gly Glu Glu
 370 375 380

Glu Glu Ser Met Glu Thr Gln Glu
 385 390

<210> 511

<211> 72

<212> PRT

<213> Homo sapiens

<400> 511

His Gly Gly Gly Lys Gly Arg Gln Val Gly Leu His Ser Val Gln Arg
 1 5 10 15

Pro Ala Arg Arg Glu Thr Ala Ala Ser Trp Gly Leu Cys Val Lys Ile
 20 25 30

Pro Asp Leu Gly Val Ala Phe Val Tyr Lys Met Gln Glu Gly Lys Pro
 35 40 45

Val Pro Asp Ser Ser Arg Gln His Ala Gln Leu Ser Gly Ser Pro Val
 50 55 60

Ser Gln Gly Leu Ser Leu Pro Leu
 65 70

<210> 512

<211> 181

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 512

Gly	Trp	Cys	Ser	Cys	Ala	His	Ser	Ser	Ala	Trp	Pro	Gly	Xaa	Trp	Gly
1				5					10					15	

Ala	Ser	Gly	Ile	Pro	Gln	Gln	Ala	Pro	Met	Thr	Val	Cys	Asp	Gln	Ala
			20					25					30		

Xaa	Pro	Val	Thr	Phe	Leu	Leu	Leu	His	Leu	Glu	Gly	Gly	Asp	Ile	His
		35					40					45			

Thr	Val	Ser	His	Leu	Ser	Ser	Pro	Pro	Pro	Gly	Val	Ala	His	Arg	Met
	50					55					60				

Gly	Thr	Gly	Gly	Ser	Arg	Asn	Pro	Asn	Pro	Ala	Trp	Leu	Gly	Gly	Ala
65					70					75					80

Leu	Leu	Val	Arg	Gly	Arg	Pro	Ala	Ser	Leu	Ala	Pro	Trp	Gly	His	Ser
				85					90					95	

Trp	Lys	Arg	Gly	Leu	Ala	His	Ala	Pro	Leu	Arg	Ala	Gly	Thr	Cys	Thr
			100					105					110		

Gly	His	Thr	Arg	His	Ser	Ala	Cys	Trp	Asn	Arg	Trp	Leu	Cys	Ser	Cys
		115					120						125		

Ser	Gly	Pro	Arg	Ala	Ala	Xaa	Leu	Arg	Pro	Cys	Thr	Ser	His	Met	His
	130					135					140				

Trp	Thr	Arg	Ala	Glu	Thr	Pro	Val	Cys	Tyr	Arg	Ala	Leu	Val	Leu	Cys
145					150					155					160

Gly	Pro	Gly	Ala	Thr	Ala	Gln	Ser	Ser	Gln	Trp	Arg	Ser	Thr	Pro	Leu
				165					170						175

Asp	Ser	Ile	Phe	Phe
				180

469

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<210> 513
<211> 202
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 513
Leu Gly Asp Thr Ile Glu Gly Thr Pro Ala Gly Thr Val Pro Xaa Phe
  1                      5                      10                      15

Pro Gly Arg Pro Thr Arg Ala Ile Met Ala Gln Asp Gln Gly Glu Lys
      20                      25                      30

Glu Asn Pro Met Arg Glu Leu Arg Ile Arg Lys Leu Cys Leu Asn Ile
      35                      40                      45

Cys Val Gly Glu Ser Gly Asp Arg Leu Thr Arg Ala Ala Lys Val Leu
      50                      55                      60

Glu Gln Leu Thr Gly Gln Thr Pro Val Phe Ser Lys Ala Arg Tyr Thr
      65                      70                      75                      80

Val Arg Ser Phe Gly Ile Arg Arg Asn Glu Lys Ile Ala Val His Cys
      85                      90                      95

Thr Val Arg Gly Ala Lys Ala Glu Glu Ile Leu Glu Lys Gly Leu Lys
      100                      105                      110

Val Arg Glu Tyr Glu Leu Arg Lys Asn Asn Phe Ser Asp Thr Gly Asn
      115                      120                      125

Phe Gly Phe Gly Ile Gln Glu His Ile Asp Leu Gly Ile Lys Tyr Asp
      130                      135                      140

Pro Ser Ile Gly Ile Tyr Gly Leu Asp Phe Tyr Val Val Leu Gly Arg
      145                      150                      155                      160

Pro Gly Phe Ser Ile Ala Asp Lys Lys Arg Arg Thr Gly Cys Ile Gly
      165                      170                      175

Ala Lys His Arg Ile Ser Lys Glu Glu Ala Met Arg Trp Phe Gln Gln
      180                      185                      190

Lys Tyr Asp Gly Ile Ile Leu Pro Gly Lys
      195                      200

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470

<210> 514
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 514
 Xaa Xaa Lys Asn Xaa Ile Thr Pro Lys Glu Glu Ser Pro Pro His Xaa
 1 5 10 15
 Ala Leu Leu Ser Lys Cys Leu Leu Thr Pro Ser Pro Lys Met Pro Pro
 20 25 30
 Ile Leu Xaa Val Met Ala Ala Leu Gly Phe Glu Arg Arg Glu Phe Gly
 35 40 45
 Ser Thr Ser Val Glu Arg Val Gln Ser Arg Gln Leu Asp Cys Phe
 50 55 60

<210> 515
 <211> 218
 <212> PRT
 <213> Homo sapiens

471

<220>

<221> SITE

<222> (151)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (211)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 515

Ser	Leu	Ala	Arg	Gly	Cys	Gln	Arg	Pro	Asp	Ala	Val	Leu	Tyr	Ala	Arg
1				5					10					15	

His	Tyr	Asn	Ile	Pro	Val	Ile	His	Ala	Phe	Arg	Arg	Ala	Val	Asp	Asp
		20					25						30		

Pro	Gly	Leu	Val	Phe	Asn	Gln	Leu	Pro	Lys	Met	Leu	Tyr	Pro	Glu	Tyr
	35					40					45				

His	Lys	Val	His	Gln	Met	Met	Arg	Glu	Gln	Ser	Ile	Leu	Ser	Pro	Ser
50					55					60					

Pro	Tyr	Glu	Gly	Tyr	Arg	Ser	Leu	Pro	Arg	His	Gln	Leu	Leu	Cys	Phe
65				70					75					80	

Lys	Glu	Asp	Cys	Gln	Ala	Val	Phe	Gln	Asp	Leu	Glu	Gly	Val	Glu	Lys
		85						90						95	

Val	Phe	Gly	Val	Ser	Leu	Val	Leu	Val	Leu	Ile	Gly	Ser	His	Pro	Asp
	100					105						110			

Leu	Ser	Phe	Leu	Pro	Gly	Ala	Gly	Ala	Asp	Phe	Ala	Val	Asp	Pro	Asp
	115					120						125			

Gln	Pro	Leu	Ser	Ala	Lys	Arg	Asn	Pro	Ile	Asp	Val	Asp	Pro	Phe	Thr
	130				135					140					

Tyr	Gln	Ser	Thr	Arg	Gln	Xaa	Gly	Leu	Tyr	Ala	Met	Gly	Pro	Leu	Ala
145					150				155					160	

Gly	Asp	Asn	Phe	Val	Arg	Phe	Val	Gln	Gly	Gly	Ala	Leu	Ala	Val	Ala
		165						170						175	

Ser	Ser	Leu	Leu	Arg	Lys	Glu	Gln	Asn	His	Leu	His	Arg	Gln	Pro	Trp
		180					185						190		

472

Ser Ser Leu Arg Gly Ile His Pro Leu Ile Asp Leu Lys Ser Gly Val
195 200 205

Xaa Pro Xaa Leu Val Lys Leu Thr Ala Gln
210 215

<210> 516

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 516

Asn Gly Arg Pro Asp Ser Thr Gly Pro Ala Ile Pro Gly Ile Leu Ser
1 5 10 15

Trp Gly Phe Glu Thr Xaa Leu Arg Asp Arg Glu Thr Asp Pro Arg Asn
20 25 30

Val Leu Asn Cys Asn Gly Pro His Thr
35 40

<210> 517

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (204)

<223> Xaa equals any of the naturally occurring L-amino acids

473

<400> 517

Gly	Phe	Asn	Arg	Ser	Phe	Cys	Gly	Arg	Asn	Ala	Thr	Val	Tyr	Gly	Lys
1				5					10					15	
Gly	Val	Tyr	Phe	Ala	Arg	Arg	Ala	Ser	Leu	Ser	Val	Gln	Asp	Arg	Tyr
			20					25					30		
Ser	Pro	Pro	Asn	Ala	Asp	Gly	His	Lys	Ala	Val	Phe	Val	Ala	Arg	Val
			35				40					45			
Leu	Thr	Gly	Asp	Tyr	Gly	Gln	Gly	Arg	Arg	Gly	Leu	Arg	Ala	Pro	Pro
	50					55					60				
Leu	Arg	Gly	Pro	Gly	His	Val	Leu	Leu	Arg	Tyr	Asp	Ser	Ala	Val	Asp
65					70					75					80
Cys	Ile	Cys	Gln	Pro	Ser	Ile	Phe	Val	Ile	Phe	His	Asp	Thr	Gln	Ala
				85					90					95	
Leu	Pro	Thr	His	Leu	Ile	Thr	Cys	Glu	Ala	Arg	Ala	Pro	Arg	Phe	Pro
			100					105					110		
Arg	Arg	Pro	Leu	Trp	Xaa	Pro	Gly	Pro	Leu	Pro	Arg	His	Leu	Thr	Glu
		115					120					125			
Gly	Ala	Thr	Leu	Trp	Pro	Pro	Ala	Ser	Gln	Ala	Pro	Ser	Ser	Ala	Gln
	130						135				140				
Ala	Asp	Ala	Pro	Arg	Pro	Gln	Leu	Trp	Pro	Pro	Glu	Leu	Ser	Pro	Gly
145					150					155					160
Xaa	Pro	Cys	Leu	Pro	Leu	Arg	Ala	Pro	Glu	Gly	Gly	Val	Gly	Asp	Gly
			165						170					175	
Gly	Gln	Gln	Arg	Pro	Arg	Gly	Ala	Gly	Leu	Gly	Pro	Ser	Leu	Gly	Arg
			180					185					190		
Pro	His	His	Gln	Gly	Ser	Ala	Glu	Pro	Arg	Arg	Xaa	His	Arg	Pro	Pro
		195					200					205			
Ala	Ala	Pro	Arg	Pro	Arg	Pro	Ser	Arg	Leu	Cys	Cys	Leu	Asn	Lys	Arg
	210					215					220				
Glu	Arg	Glu	Pro	Arg	Arg	Lys	Gly	Pro	Gly	Lys	Lys	Lys	Lys	Lys	Lys
225					230					235					240
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys						
				245					250						

474

<210> 518
 <211> 100
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 518
 Asn Pro Xaa Lys Lys Leu Xaa Ile Leu Ile Lys Trp Pro Pro Pro Phe
 1 5 10 15

 Pro Pro Ser Phe Pro Pro Ser Pro Asn Ser Leu Ser Ser Ser Ser Phe
 20 25 30

 Pro Pro Pro Leu Ser Leu Phe Ser Pro Ser Phe Thr Phe Leu Ile Ser
 35 40 45

 Val Lys Leu Glu Arg Phe Glu Ile Pro Ile Lys Val Arg Leu Ser Pro
 50 55 60

 Glu Pro Trp Thr Pro Glu Thr Gly Leu Val Thr Asp Ala Phe Lys Leu
 65 70 75 80

 Lys Arg Lys Glu Leu Arg Asn His Tyr Leu Lys Asp Ile Glu Arg Met
 85 90 95

 Tyr Gly Gly Lys
 100

<210> 519
 <211> 60
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

475

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 519

His	Glu	Asp	Gly	Xaa	Leu	Met	Gly	Cys	Arg	His	Arg	Trp	His	Pro	Arg
1				5					10					15	

Xaa	Val	Pro	Phe	His	Gln	Thr	Ser	Pro	Lys	Thr	Glu	Leu	Glu	Ser	Thr
			20					25					30		

Ile	Phe	Gly	Ser	Pro	Arg	Leu	Ala	Ser	Gly	Leu	Phe	Pro	Glu	Trp	Gln
		35					40						45		

Ser	Trp	Gly	Arg	Met	Glu	Asn	Leu	Ala	Ser	Tyr	Arg
	50					55					60

<210> 520

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 520

Ser	His	Pro	Tyr	Ala	Pro	Ser	Cys	Gly	Leu	Arg	Gly	Pro	Gly	Ala	Ala
1				5					10					15	

Ser	Arg	Ala	Arg	Thr	Arg	Glu	Arg	Xaa	Pro	Gln	Ala	Glu	Ala	Glu	Ala
		20						25					30		

Arg	Ser	Thr	Pro	Gly	Pro	Ala	Gly	Ser	Arg	Leu	Gly	Pro	Glu	Thr	Phe
		35				40						45			

Arg	Gln	Arg	Phe	Arg	Gln	Phe	Arg	Tyr	Gln	Asp	Ala	Ala	Gly	Pro	Arg
	50					55				60					

Glu	Ala	Phe	Arg	Gln	Leu	Arg	Glu	Leu	Ser	Arg	Gln	Trp	Leu	Arg	Pro
65					70					75				80	

Asp	Ile	Arg	Thr	Lys	Glu	Gln	Ile	Val	Glu	Met	Leu	Val	Gln	Glu	Gln
				85					90					95	

Leu	Leu	Ala	Ile	Leu	Pro	Glu	Ala	Ala	Arg	Ala	Arg	Arg	Ile	Arg	Arg
		100						105					110		

Arg Thr Asp Val Arg Ile Thr Gly

476

115

120

<210> 521

<211> 96

<212> PRT

<213> Homo sapiens

<400> 521

Gly His Gln Thr Val Ser Pro Ser Thr Gly Ser Arg Val Thr Arg Met
1 5 10 15

Phe Ser Leu Ile Ser Phe Ser His Val Phe Ile Lys Asp Ile Cys Lys
20 25 30

Leu Pro Lys Asp Glu Gly Thr Cys Arg Asp Phe Ile Leu Lys Trp Tyr
35 40 45

Tyr Asp Pro Asn Thr Lys Ser Cys Ala Arg Phe Trp Tyr Gly Gly Cys
50 55 60

Gly Gly Asn Glu Asn Lys Phe Gly Ser Gln Lys Glu Cys Glu Lys Val
65 70 75 80

Cys Ala Pro Val Leu Ala Lys Pro Gly Val Ile Ser Val Met Gly Thr
85 90 95

<210> 522

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 522

Asn Ser Gly Phe Arg Pro Lys Asn Pro Val Gly Arg Gly Gly Glu Pro
1 5 10 15

Glu Xaa Cys Gly Gly Ala Gly Gly Leu Gly Cys Thr Leu Val Trp Gly
20 25 30

Gly Thr Gly Ala Ala Val Val Thr Gly Val Val Trp Leu Leu Pro

477

35	40	45
Asn Gly Gly Val Gly Val Gly Leu Leu Gly Pro Gln Ser Pro Val Gly		
50	55	60
Gly Ser Asp Ser Ala Pro Tyr Ser Leu His Pro Ala Gly Arg Thr Trp		
65	70	75 80
Gly Leu Arg Ser Glu Cys Ile Pro Pro Leu Ser Phe Asn Leu Ser Cys		
	85	90 95
Arg Thr His Ser Gly Pro Gly Ala Arg Leu Gly Glu Ala Gly Pro Asn		
	100	105 110
Tyr Gly Ser Arg Glu Leu Gln Val Pro Thr		
115	120	

<210> 523
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 523
 Leu Ile Pro Gln Val Cys Cys Lys His Ser Met Glu Asp Thr Asp Asp
 1 5 10 15
 Ser Leu Val Leu Val Phe Leu Ser Ala Val Asn Val Gln Gln Phe Ala
 20 25 30
 Gln Glu Leu Gly Asp His Ile Cys Leu Ser Gly Gln Gly Ser Glu Val
 35 40 45
 His Trp Asn Leu Leu Arg Asn Leu Phe Val Lys Thr Ile Val Asn Asn
 50 55 60
 Tyr Cys Ile Phe Leu Gln Lys Tyr Ile Leu Glu Asn Cys Ile Leu Ser
 65 70 75 80
 Ile Lys Val Phe Leu Cys Lys Lys Lys Lys Lys Lys Leu Val
 85 90

<210> 524
 <211> 93
 <212> PRT
 <213> Homo sapiens

<220>

478

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 524

Ser	Ala	Val	Met	Gly	Arg	Lys	Lys	Lys	Lys	Gln	Leu	Lys	Pro	Trp	Cys
1				5						10				15	

Trp	Tyr	Cys	Asn	Arg	Asp	Phe	Asp	Asp	Glu	Lys	Ile	Leu	Ile	Gln	His
			20					25					30		

Gln	Lys	Ala	Lys	His	Phe	Lys	Cys	His	Ile	Cys	His	Lys	Lys	Leu	Tyr
		35					40					45			

Thr	Gly	Pro	Gly	Leu	Ala	Ile	His	Cys	Met	Gln	Val	His	Lys	Glu	Thr
	50					55					60				

Ile	Asp	Ala	Val	Pro	Asn	Ala	Tyr	Leu	Gly	Glu	Gln	Thr	Xaa	Ile	Gly
65					70					75					80

Asn	Ile	Trp	Tyr	Gly	Xaa	Tyr	Ser	Arg	Lys	Arg	Tyr	Xaa
				85						90		

<210> 525

<211> 324

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (323)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 525

Asp	Leu	Arg	Leu	Ser	Arg	Pro	Glu	Ala	Val	Glu	Ala	Glu	Ala	Met	Met
1				5						10				15	

Ala	Ala	Met	Ala	Thr	Ala	Arg	Val	Arg	Met	Gly	Pro	Arg	Cys	Ala	Gln
			20					25					30		

479

Ala Leu Trp Arg Met Pro Trp Leu Pro Val Phe Leu Ser Leu Ala Ala
 35 40 45
 Ala Ala Ala Ala Ala Ala Ala Glu Gln Gln Val Pro Leu Val Leu Trp
 50 55 60
 Ser Ser Asp Arg Asp Leu Trp Ala Pro Ala Ala Asp Thr His Glu Gly
 65 70 75 80
 His Ile Thr Ser Asp Leu Gln Leu Ser Thr Tyr Leu Asp Pro Ala Leu
 85 90 95
 Glu Leu Gly Pro Arg Asn Val Leu Leu Phe Leu Gln Asp Lys Leu Ser
 100 105 110
 Ile Glu Asp Phe Thr Ala Tyr Gly Gly Val Phe Gly Asn Lys Gln Asp
 115 120 125
 Ser Ala Phe Ser Asn Leu Glu Asn Ala Leu Asp Leu Ala Pro Ser Ser
 130 135 140
 Leu Val Leu Pro Ala Val Asp Trp Tyr Ala Val Ser Thr Leu Thr Thr
 145 150 155 160
 Tyr Leu Gln Glu Lys Leu Gly Ala Ser Pro Leu His Val Asp Leu Ala
 165 170 175
 Thr Leu Arg Glu Leu Lys Leu Asn Ala Ser Leu Pro Ala Leu Leu Leu
 180 185 190
 Ile Arg Leu Pro Tyr Thr Ala Ser Ser Gly Leu Met Ala Pro Arg Glu
 195 200 205
 Val Leu Thr Gly Asn Asp Glu Val Ile Gly Gln Val Leu Ser Thr Leu
 210 215 220
 Lys Ser Glu Asp Val Pro Tyr Thr Ala Ala Leu Thr Ala Val Arg Pro
 225 230 235 240
 Ser Arg Val Ala Arg Asp Val Ala Val Val Ala Gly Gly Leu Gly Arg
 245 250 255
 Gln Leu Leu Gln Lys Gln Pro Val Ser Pro Val Ile His Pro Pro Val
 260 265 270
 Ser Tyr Asn Asp Thr Ala Pro Arg Ile Leu Phe Trp Ala Gln Asn Phe
 275 280 285
 Ser Val Ala Tyr Lys Asp Gln Trp Glu Asp Leu Thr Pro Leu Thr Phe
 290 295 300

480

Gly Val Gln Glu Leu Asn Leu Thr Gly Ser Phe Trp Asn Asp Ser Phe
 305 310 315 320

Ala Ser Xaa His

<210> 526

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 526

Phe Xaa Val Ser Trp Thr Trp Lys Gln Val Ser Glu Phe Pro Gly Asp
 1 5 10 15

Gln Arg Asp Glu Val Leu Gln Leu Pro Pro Ser Ser Cys Asn Leu Val
 20 25 30

Ser Ser Gly Ala Gly Gly Glu Pro Glu Lys Leu Ala Ser Tyr Ile Thr
 35 40 45

Ser Leu Trp Leu Phe Phe Ile Cys Lys Thr Arg Ile Ile Leu Asn Cys
 50 55 60

Lys Gly
 65

<210> 527

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 527

Asn Thr Gln Leu Trp Phe Leu Cys Phe Pro Asn Cys Lys Ala Ala Asp
 1 5 10 15

481

Asn Lys Thr Pro Gly Phe His Val Ser Ser Ala Met Ser Thr Leu Thr
 20 25 30

Gln Ile Leu Lys Gln Asn Ser Xaa Asn Ala Val Leu Arg Ile Gln Leu
 35 40 45

Leu Leu Lys Pro Ile Ser Ile Cys Ile Ile Thr Thr Asn Ile
 50 55 60

<210> 528

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 528

Tyr Asn Lys Ile Glu Ile Met His Leu Val Met Trp Pro Thr Ser Leu
 1 5 10 15

Leu Thr Thr Met Asp Cys Phe Gln Gln Leu Ile Phe Trp Ser Val
 20 25 30

Leu Arg Gly Ala Cys Met Ser Phe Val Thr Ser Gly Ser Thr Pro Ala
 35 40 45

Val Lys Tyr Cys Phe His Leu Pro Leu Gln Lys Ala Ser Cys Leu Leu
 50 55 60

Thr Ser Thr Ala Lys Ala Leu Phe Trp Thr Gly Tyr Leu Ile Lys Xaa
 65 70 75 80

Ile Ser Val Arg Leu Cys Ser Val Ile Pro Ser Glu Pro Arg Phe Val
 85 90 95

Ser Lys Ala Thr Val Leu Ser Xaa Xaa Pro Cys Val Trp Gly Gln Val

482

100	105	110
Ala Ile Pro Pro Met Ser Leu Val Ile Leu		
115	120	

<210> 529
 <211> 182
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (25)
 <223> Xaa equals any of the naturally occurring L-amino acids

Asp Arg Thr Arg Leu Ser Gln Ala Ser Thr Pro Thr Pro Val Cys Trp		
1	5	10
Gly Leu Leu Gln Pro Pro Pro Trp Xaa Glu Ala Trp Tyr Arg Leu Thr		
20	25	30
His Arg Gly Leu Cys Gln Val Arg Phe Cys Arg Trp Ser Gln Ala Leu		
35	40	45
Pro Glu Ala Arg Gly Gly Ala Trp Ala Gly Ser Pro Gly Glu Gly Gln		
50	55	60
Ala Gly Pro Arg Leu His Thr His Ile Gln Pro Ala Gly Leu Ser Ala		
65	70	75
Val Leu Ser Pro Ser Leu Ser Ser Pro Ser Ser Ala Val Thr Leu Ser		
85	90	95
Ser Pro Ser Leu Pro Ala Ser Pro Pro Ala Ala Pro Pro Val Lys Arg		
100	105	110
Met Thr Lys Asp Leu Ser Tyr Ala Gly Ser Lys Asn Gln Asn Phe Leu		
115	120	125
Leu Ala Phe Ser Phe Val Ala Ser Pro Ala Pro Ala Leu Pro Val Ser		
130	135	140
His Pro Gly Pro Arg Leu Glu Ala Ser Leu His Leu Ser Tyr Cys Phe		
145	150	155
Lys Pro Lys Phe Thr Val Ser Val Gly Gly Gln Asp Leu Leu Ser Pro		
165	170	175

483

Pro Leu Leu His Pro Pro
180

<210> 530

<211> 183

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 530

Ala Leu Val Leu Gly Xaa Lys Ser Val Arg Met Ala Ser Ser Arg Met
1 5 10 15

Thr Arg Arg Asp Pro Leu Thr Asn Lys Val Ala Leu Val Thr Ala Ser
20 25 30

Thr Asp Gly Ile Gly Phe Ala Ser Pro Gly Val Trp Pro Arg Thr Gly
35 40 45

Pro Arg Gly Arg Gln Gln Pro Glu Ala Ala Glu Cys Gly Pro Gly Gly
50 55 60

Gly Thr Leu Gln Gly Glu Gly Leu Ser Val Thr Gly Thr Cys Xaa Xaa
65 70 75 80

Xaa Gly Lys Ala Glu Asp Arg Glu Arg Leu Val Ala Thr Ala Val Lys
85 90 95

Leu His Gly Gly Ile Asp Ile Leu Val Ser Asn Ala Ala Val Asn Pro
100 105 110

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<210> 531
<211> 129
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (89)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (103)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 531
Asn Ser Ala Pro Leu Ser Pro Thr Gly Leu Gly Gln Gly His Thr Gly
  1                      5                      10                      15
His Val Arg Phe Leu Ala Ala Val Gln Leu Pro Asp Gly Phe Asn Leu
      20                      25                      30
Leu Cys Pro Thr Pro Pro Pro Pro Pro Asp Thr Gly Pro Glu Lys Leu
      35                      40                      45
Pro Ser Leu Glu His Arg Asp Ser Pro Trp His Arg Gly Pro Ala Pro
      50                      55                      60
Ala Arg Pro Lys Met Leu Val Ile Ser Gly Gly Asp Gly Tyr Glu Asp
  65                      70                      75                      80
Phe Arg Leu Ser Ser Gly Gly Gly Xaa Ala Val Arg Leu Trp Val Glu
      85                      90                      95

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485

Thr Thr Ala Gln Thr Thr Xaa Ser Cys Gly Gly Cys Asp Pro Val Cys
100 105 110

Arg Gly Pro Gly Leu Ala Arg Pro Pro Ala Phe Ser Leu Leu Ala Ser
115 120 125

Pro

<210> 532

<211> 91

<212> PRT

<213> Homo sapiens

<400> 532

Gly Ala Ile Ala Ser Ser Gly Pro Thr Gly Gly Arg Val Arg Lys His
1 5 10 15

Gln Leu Leu Pro Gly Ala Val Arg Glu Trp Glu Gln Leu Trp Ala Pro
20 25 30

His Phe Arg Gln Val Leu Pro Lys Pro Ser Asp Ala Val Arg Pro Gly
35 40 45

Leu Pro Val Val Leu Phe Arg Leu Cys Phe Gln Asn Ala Phe Ile Ser
50 55 60

Ser Val Pro Phe Gly Pro His Lys Ser Pro Trp Gly Val Gly Gly Gly
65 70 75 80

Leu Cys Arg His Pro His Phe Lys Ala Gly Ser
85 90

<210> 533

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 533

Asn Leu Cys Gln Val Gln Pro Thr Arg Leu Tyr Ser Ser Leu His Ser
1 5 10 15

486

Gly Leu His His Val Arg Gln Val Thr Gln Lys Ser Tyr Lys Val Ser
 20 25 30
 Thr Ser Gly Pro Arg Ala Phe Ser Ser Arg Ser Tyr Thr Ser Gly Pro
 35 40 45
 Gly Ser Arg Ile Ser Ser Ser Ala Phe Ser Arg Val Gly Gly Xaa Ser
 50 55 60
 Gly Gly Ala
 65

<210> 534

<211> 144

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 534

Phe Asn Arg Arg Tyr Pro Lys Ile Gln Phe Ser Leu Ser Thr Gly Pro
 1 5 10 15
 Ser Gly Thr Met Leu Asp Gly Val Leu Glu Gly Lys Leu Asn Ala Ala
 20 25 30
 Phe Ile Asp Gly Pro Ile Asn His Thr Ala Ile Asp Gly Ile Pro Val
 35 40 45
 Tyr Arg Glu Glu Leu Met Ile Val Thr Pro Gln Gly Tyr Ala Pro Val
 50 55 60
 Thr Arg Ala Ser Gln Val Asn Gly Ser Asn Ile Tyr Ala Phe Arg Ala
 65 70 75 80
 Asn Cys Ser Tyr Arg Arg His Phe Glu Ser Trp Phe His Ala Asp Gly
 85 90 95
 Ala Ala Pro Gly Thr Ile His Glu Met Glu Ser Tyr His Gly Met Leu
 100 105 110

487

Ala Cys Val Ile Ala Gly Ala Gly Ile Ala Leu Ile Pro Arg Ser Met
 115 120 125

Leu Glu Ser Met Pro Gly His His Gln Val Glu Xaa Xaa Ala Val Ser
 130 135 140

<210> 535

<211> 175

<212> PRT

<213> Homo sapiens

<400> 535

Arg Ala Pro Ala Arg Ile Ser Gly Gly Gly Ser Ala Met Val Gly Gly
 1 5 10 15

Gly Gly Val Gly Gly Gly Leu Leu Glu Asn Ala Asn Pro Leu Ile Tyr
 20 25 30

Gln Arg Ser Gly Glu Arg Pro Val Thr Ala Gly Glu Glu Asp Glu Gln
 35 40 45

Val Pro Asp Ser Ile Asp Ala Arg Glu Ile Phe Asp Leu Ile Arg Ser
 50 55 60

Ile Asn Asp Pro Glu His Pro Leu Thr Leu Glu Glu Leu Asn Val Val
 65 70 75 80

Glu Gln Val Arg Val Gln Val Ser Asp Pro Glu Ser Thr Val Ala Val
 85 90 95

Ala Phe Thr Pro Thr Ile Pro His Cys Ser Met Ala Thr Leu Ile Gly
 100 105 110

Leu Ser Ile Lys Val Lys Leu Leu Arg Ser Leu Pro Gln Arg Phe Lys
 115 120 125

Met Asp Val His Ile Thr Pro Gly Thr His Ala Ser Glu His Ala Val
 130 135 140

Asn Lys Gln Leu Ala Asp Lys Glu Arg Val Ala Ala Ala Leu Glu Asn
 145 150 155 160

Thr His Leu Leu Glu Val Val Asn Gln Cys Leu Ser Ala Arg Ser
 165 170 175

488

<210> 536

<211> 148

<212> PRT

<213> Homo sapiens

<400> 536

Gly Trp His Arg Thr His His Arg Gly Arg His Gln Ala Arg Glu Ala
 1 5 10 15

Glu Glu Glu Ala Trp Ala Ala Ala Glu Pro Ile Lys Lys Val Arg Lys
 20 25 30

Ser Leu Ala Leu Asp Ile Val Asp Glu Asp Val Lys Leu Met Met Ser
 35 40 45

Thr Leu Pro Lys Ser Leu Ser Leu Pro Thr Thr Ala Pro Ser Asn Ser
 50 55 60

Ser Ser Leu Thr Leu Ser Gly Ile Lys Glu Asp Asn Ser Leu Leu Asn
 65 70 75 80

Gln Gly Phe Leu Gln Ala Lys Pro Glu Lys Ala Ala Val Ala Gln Lys
 85 90 95

Pro Arg Ser His Phe Thr Thr Pro Ala Pro Met Ser Ser Ala Trp Lys
 100 105 110

Thr Val Ala Cys Gly Gly Thr Arg Asp Gln Leu Phe Met Gln Glu Lys
 115 120 125

Ala Arg Gln Leu Leu Gly Arg Leu Lys Pro Ser His Thr Ser Arg Thr
 130 135 140

Leu Ile Leu Ser
 145

<210> 537

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

489

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 537

Arg	Pro	Thr	Arg	Ser	Ala	Trp	Trp	Gly	Arg	Leu	Leu	Ser	Arg	Val	Ser
1				5				10					15		

Pro	Gln	Pro	Arg	Pro	Ala	Ser	Pro	Ser	Val	Ser	Thr	Arg	Asn	Gln	Leu
			20					25					30		

Pro	Glu	Ala	Arg	Arg	Gly	Val	Glu	Xaa	Xaa	Glu	Cys	Glu	Glu	Thr	Ala
		35					40					45			

Ala	Ser	Ala	Glu	Arg	Ala	Gly	Pro	Pro	Arg	Ala	Leu	Val	Phe	Gly	Ala
	50					55					60				

Gln	Ser	Arg	Ser	Pro	Gly
65					70

<210> 538

<211> 206

<212> PRT

<213> Homo sapiens

<400> 538

Gly	Glu	Val	Ser	Ala	Ser	Gly	Ile	Ala	Arg	Arg	Gly	Gly	Pro	Met	Ala
1				5					10				15		

Pro	Leu	Gly	Gly	Ala	Pro	Arg	Leu	Val	Leu	Leu	Phe	Ser	Gly	Lys	Arg
		20					25						30		

Lys	Ser	Gly	Lys	Asp	Phe	Val	Thr	Glu	Ala	Leu	Gln	Ser	Arg	Leu	Gly
	35						40					45			

Ala	Asp	Val	Cys	Ala	Val	Leu	Arg	Leu	Ser	Gly	Pro	Leu	Lys	Glu	Gln
	50					55					60				

Tyr	Ala	Gln	Glu	His	Gly	Leu	Asn	Phe	Gln	Arg	Leu	Leu	Asp	Thr	Ser
65					70				75					80	

Thr	Tyr	Lys	Glu	Ala	Phe	Arg	Lys	Asp	Met	Ile	Arg	Trp	Gly	Glu	Glu
		85							90					95	

Lys	Arg	Gln	Ala	Asp	Pro	Gly	Phe	Phe	Cys	Arg	Lys	Ile	Val	Glu	Gly
		100					105					110			

Ile	Ser	Gln	Pro	Ile	Trp	Leu	Val	Ser	Asp	Thr	Arg	Arg	Val	Ser	Asp
		115				120						125			

490

Ile Gln Trp Phe Arg Glu Ala Tyr Gly Ala Val Thr Gln Thr Val Arg
130 135 140

Val Val Ala Leu Glu Gln Ser Arg Gln Gln Arg Gly Trp Val Phe Thr
145 150 155 160

Pro Gly Val Asp Asp Ala Glu Ser Glu Cys Gly Leu Asp Asn Phe Gly
165 170 175

Asp Phe Asp Trp Val Ile Glu Asn His Gly Val Glu Gln Arg Leu Glu
180 185 190

Glu Gln Leu Glu Asn Leu Ile Glu Phe Ile Arg Ser Arg Leu
195 200 205

<210> 539

<211> 350

<212> PRT

<213> Homo sapiens

<400> 539

Ser Thr Leu Ile Ala Phe Ile Val Ile Ser Thr Leu Phe Pro Leu Leu
1 5 10 15

Asp Met Thr Glu Ile Tyr Phe Ser Leu Leu Asp Glu Ile Val Asp Thr
20 25 30

Leu Gly Glu Gly Ala Phe Gly Lys Val Val Glu Cys Ile Asp His Lys
35 40 45

Ala Gly Gly Arg His Val Ala Val Lys Ile Val Lys Asn Val Asp Arg
50 55 60

Tyr Cys Glu Ala Ala Arg Ser Glu Ile Gln Val Leu Glu His Leu Asn
65 70 75 80

Thr Thr Asp Pro Asn Ser Thr Phe Arg Cys Val Gln Met Leu Glu Trp
85 90 95

Phe Glu His His Gly His Ile Cys Ile Val Phe Glu Leu Leu Gly Leu
100 105 110

Ser Thr Tyr Asp Phe Ile Lys Glu Asn Gly Phe Leu Pro Phe Arg Leu
115 120 125

Asp His Ile Arg Lys Met Ala Tyr Gln Ile Cys Lys Ser Val Asn Phe
130 135 140

491

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Leu His Ser Asn Lys Leu Thr His Thr Asp Leu Lys Pro Glu Asn Ile
145                150                155                160

Leu Phe Val Gln Ser Asp Tyr Thr Glu Ala Tyr Asn Pro Lys Ile Lys
                165                170                175

Arg Asp Glu Arg Thr Leu Ile Asn Pro Asp Ile Lys Val Val Asp Phe
                180                185                190

Gly Ser Ala Thr Tyr Asp Asp Glu His His Ser Thr Leu Val Ser Thr
                195                200                205

Arg His Tyr Arg Ala Pro Glu Val Ile Leu Ala Leu Gly Trp Ser Gln
                210                215                220

Pro Cys Asp Val Trp Ser Ile Gly Cys Ile Leu Ile Glu Tyr Tyr Leu
225                230                235                240

Gly Phe Thr Val Phe Pro Thr His Asp Ser Lys Glu His Leu Ala Met
                245                250                255

Met Glu Arg Ile Leu Gly Pro Leu Pro Lys His Met Ile Gln Lys Thr
                260                265                270

Arg Lys Arg Lys Tyr Phe His His Asp Arg Leu Asp Trp Asp Glu His
                275                280                285

Ser Ser Ala Gly Arg Tyr Val Ser Arg Arg Cys Lys Pro Leu Lys Glu
                290                295                300

Phe Met Leu Ser Gln Asp Val Glu His Glu Arg Leu Phe Asp Leu Ile
305                310                315                320

Gln Lys Met Leu Glu Tyr Asp Pro Ala Lys Arg Ile Thr Leu Arg Glu
                325                330                335

Ala Leu Lys His Pro Phe Phe Asp Leu Leu Lys Lys Ser Ile
                340                345                350

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<210> 540

<211> 324

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (304)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (317)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (321)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 540

Gln	Ala	Thr	Met	Gly	Asn	Val	Leu	Ala	Ala	Ser	Ser	Pro	Pro	Ala	Gly
1				5						10				15	

Pro	Pro	Pro	Pro	Pro	Ala	Pro	Ala	Leu	Val	Gly	Leu	Pro	Pro	Pro	Pro
				20				25						30	

Pro	Ser	Pro	Pro	Gly	Phe	Thr	Leu	Pro	Pro	Leu	Gly	Gly	Ser	Leu	Gly
				35				40					45		

Ala	Gly	Thr	Ser	Thr	Xaa	Arg	Xaa	Ser	Glu	Arg	Thr	Pro	Gly	Ala	Ala
				50				55					60		

Thr	Ala	Ser	Ala	Ser	Gly	Ala	Ala	Glu	Asp	Gly	Ala	Cys	Gly	Cys	Leu
				65				70				75			80

Pro	Asn	Pro	Gly	Thr	Phe	Glu	Glu	Cys	His	Arg	Lys	Cys	Lys	Glu	Leu
				85						90				95	

Phe	Pro	Ile	Gln	Met	Glu	Gly	Val	Lys	Leu	Thr	Val	Asn	Lys	Gly	Leu
				100					105					110	

493

Ser Asn His Phe Gln Val Asn His Thr Val Ala Leu Ser Thr Ile Gly
 115 120 125
 Glu Ser Asn Tyr His Phe Gly Val Thr Tyr Val Gly Thr Lys Gln Leu
 130 135 140
 Ser Pro Thr Glu Ala Phe Pro Val Leu Val Gly Asp Met Asp Asn Ser
 145 150 155 160
 Gly Ser Leu Asn Ala Gln Val Ile His Gln Leu Gly Pro Gly Leu Arg
 165 170 175
 Ser Lys Met Ala Ile Gln Thr Gln Gln Ser Lys Phe Val Asn Trp Gln
 180 185 190
 Val Asp Gly Glu Tyr Arg Gly Ser Asp Phe Thr Ala Ala Val Thr Leu
 195 200 205
 Gly Asn Pro Asp Val Leu Val Gly Ser Gly Ile Leu Val Ala His Tyr
 210 215 220
 Leu Gln Ser Ile Thr Pro Cys Leu Ala Leu Gly Gly Glu Leu Val Tyr
 225 230 235 240
 His Arg Arg Pro Gly Glu Glu Gly Thr Val Met Ser Leu Ala Gly Lys
 245 250 255
 Tyr Thr Leu Asn Asn Trp Leu Ala Thr Val Thr Leu Gly Gln Ala Gly
 260 265 270
 Met His Ala Thr Tyr Tyr His Lys Ala Ser Asp Gln Leu Gln Val Gly
 275 280 285
 Val Glu Phe Glu Ala Ser Thr Arg Xaa Gln Asp Thr Ser Val Ser Xaa
 290 295 300
 Xaa Val Pro Ala Trp Asn Leu Pro Lys Gly Gln Pro Xaa Leu Ser Lys
 305 310 315 320
 Xaa Leu Leu Gly

<210> 541

<211> 204

<212> PRT

<213> Homo sapiens

<400> 541

494

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Arg Gly Pro Thr Phe Thr Pro Glu Ile Met Ala Ala Glu Asp Val Val
 1              5              10              15

Ala Thr Gly Ala Asp Pro Ser Asp Leu Glu Ser Gly Gly Leu Leu His
      20              25              30

Glu Ile Phe Thr Ser Pro Leu Asn Leu Leu Leu Leu Gly Leu Cys Ile
      35              40              45

Phe Leu Leu Tyr Lys Ile Val Arg Gly Asp Gln Pro Ala Ala Ser Gly
      50              55              60

Asp Ser Asp Asp Asp Glu Pro Pro Pro Leu Pro Arg Leu Lys Arg Arg
      65              70              75              80

Asp Phe Thr Pro Ala Glu Leu Arg Arg Phe Asp Gly Val Gln Asp Pro
      85              90              95

Arg Ile Leu Met Ala Ile Asn Gly Lys Val Phe Asp Val Thr Lys Gly
      100              105              110

Arg Lys Phe Tyr Gly Pro Glu Gly Pro Tyr Gly Val Phe Ala Gly Arg
      115              120              125

Asp Ala Ser Arg Gly Leu Ala Thr Phe Cys Leu Asp Lys Glu Ala Leu
      130              135              140

Lys Asp Glu Tyr Asp Asp Leu Ser Asp Leu Thr Ala Ala Gln Gln Glu
      145              150              155              160

Thr Leu Ser Asp Trp Glu Ser Gln Phe Thr Phe Lys Tyr His His Val
      165              170              175

Gly Lys Leu Leu Lys Glu Gly Glu Glu Pro Thr Val Tyr Ser Asp Glu
      180              185              190

Glu Glu Pro Lys Asp Glu Ser Ala Arg Lys Asn Asp
      195              200

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<210> 542

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

495

<400> 542

Pro Ala Tyr Ser Leu Gly Leu Leu Lys Ser Val Leu Asp Gly Gly Gly
 1 5 10 15

Ala Gly Ala His Gln Ala Arg Ser Asn Pro Ser Cys Met Tyr Pro Gln
 20 25 30

Gly Thr Phe Val Ile Pro Leu Leu Val Thr Ala His Arg Asp Pro Thr
 35 40 45

Gln Phe Lys Asp Pro Asp Cys Phe Asn Pro Thr Asn Phe Leu Asp Lys
 50 55 60

Gly Lys Phe Gln Gly Asn Asp Ala Phe Met Pro Phe Ala Ser Gly Ala
 65 70 75 80

Gly Arg Gly Gly Arg Gly Pro Ala Trp Thr Gly Ser Gly Val Pro Gly
 85 90 95

Ala His Cys Ala Pro Val Tyr Pro Ala Lys Gln Met Cys Leu Gly Thr
 100 105 110

Gly Leu Ala His Ser Gly Ile Phe Leu Phe Leu Thr Ala Thr Leu Gln
 115 120 125

Arg Phe Cys Leu Leu Pro Val Val Arg Pro Gly Thr Ile Asn Leu Thr
 130 135 140

Cys Ser Ala Leu Ala Trp Ala Val Ser Pro Gln Thr Ser Ser Ser Ser
 145 150 155 160

Gln Trp Pro Ala Glu Val Arg Leu His Tyr Gly Gly Leu Thr Gly Pro
 165 170 175

Gln Thr Ser Ile Pro Ser Xaa Val Asn Lys Gly Pro Lys Leu Gln Lys
 180 185 190

Lys

<210> 543

<211> 352

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (154)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (167)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 543

Ser Thr Val Arg Xaa Pro Gly Arg Pro Thr Arg Pro Met Ala Ala Glu
 1 5 10 15

Glu Pro Gln Gln Gln Lys Gln Glu Pro Leu Gly Ser Asp Ser Glu Val
 20 25 30

Leu Thr Val Trp Pro Met Met Lys Pro Ser Trp Leu Ser Arg Thr Glu
 35 40 45

Phe Ser Lys Arg Leu Leu Cys Arg Thr Leu Trp Cys Gln Ser Gly Trp
 50 55 60

Ser Ser Arg Ser Tyr Thr Arg Ser Met Leu Lys Met Thr Thr Ser Ile
 65 70 75 80

Asn Arg Arg Ser Arg Thr Ser Thr Lys Ser Thr Arg Thr Ser Ala Arg
 85 90 95

Pro Gly Leu Thr Ala Thr Val Ser Ile Gly Leu Ser Asp Ser Pro Thr
 100 105 110

Trp Arg His Cys Trp Met Thr Ala Arg Ser Cys Ser Gly Glu Lys Gly
 115 120 125

Gly His Trp Ala Pro Arg Gln Val Gly Val Tyr Leu Leu Pro Gly Arg
 130 135 140

Val Gly Cys Val Ser Ser Arg Val Ser Xaa Ser Phe Pro Gly Asp Gly
 145 150 155 160

Leu Asp Ser Gly Leu Ala Xaa Arg Gly Ser Ala Val Ser Ala Leu Ala
 165 170 175

Ser Gly Leu Val Glu Glu Pro Met Leu Gly Pro Pro Phe His Pro Thr
 180 185 190

Pro Arg Phe Lys Ala Val Ser Ala Lys Ser Lys Glu Asp Leu Val Ser
 195 200 205

497

Gln Gly Phe Thr Glu Phe Thr Ile Glu Asp Phe His Asn Thr Phe Met
 210 215 220
 Asp Leu Ile Glu Gln Val Glu Lys Gln Thr Ser Val Ala Asp Leu Leu
 225 230 235 240
 Ala Ser Phe Asn Asp Gln Ser Thr Ser Asp Tyr Leu Val Val Tyr Leu
 245 250 255
 Arg Leu Leu Thr Ser Gly Tyr Leu Gln Arg Glu Ser Lys Phe Phe Glu
 260 265 270
 His Phe Ile Glu Gly Gly Arg Thr Val Lys Glu Phe Cys Gln Gln Glu
 275 280 285
 Val Glu Pro Met Cys Lys Glu Ser Asp His Ile His Ile Ile Ala Leu
 290 295 300
 Ala Gln Ala Leu Ser Val Ser Ile Gln Val Glu Tyr Met Asp Arg Gly
 305 310 315 320
 Glu Gly Gly Thr Thr Asn Pro His Ile Phe Pro Glu Gly Ser Glu Pro
 325 330 335
 Lys Val Tyr Leu Leu Tyr Arg Pro Gly His Tyr Asp Ile Leu Tyr Lys
 340 345 350

<210> 544

<211> 240

<212> PRT

<213> Homo sapiens

<400> 544

Ser Thr His Ala Ser Glu Met Ala Glu Arg Gly Tyr Ser Phe Ser Leu
 1 5 10 15
 Thr Thr Phe Ser Pro Ser Gly Lys Leu Val Gln Ile Glu Tyr Ala Leu
 20 25 30
 Ala Ala Val Ala Gly Gly Ala Pro Ser Val Gly Ile Lys Ala Ala Asn
 35 40 45
 Gly Val Val Leu Ala Thr Glu Lys Lys Gln Lys Ser Ile Leu Tyr Asp
 50 55 60
 Glu Arg Ser Val His Lys Val Glu Pro Ile Thr Lys His Ile Gly Leu

498

65		70		75		80
Val Tyr Ser Gly Met Gly Pro Asp Tyr Arg Val Leu Val His Arg Ala						
	85		90		95	
Arg Lys Leu Ala Gln Gln Tyr Tyr Leu Val Tyr Gln Glu Pro Ile Pro						
	100		105		110	
Thr Ala Gln Leu Val Gln Arg Val Ala Ser Val Met Gln Glu Tyr Thr						
	115		120		125	
Gln Ser Gly Gly Val Arg Pro Phe Gly Val Ser Leu Leu Ile Cys Gly						
	130		135		140	
Trp Asn Glu Gly Arg Pro Tyr Leu Phe Gln Ser Asp Pro Ser Gly Ala						
145		150		155		160
Tyr Phe Ala Trp Lys Ala Thr Ala Met Gly Lys Asn Tyr Val Asn Gly						
	165		170		175	
Lys Thr Phe Leu Glu Lys Arg Tyr Asn Glu Asp Leu Glu Leu Glu Asp						
	180		185		190	
Ala Ile His Thr Ala Ile Leu Thr Leu Lys Glu Ser Phe Glu Gly Gln						
	195		200		205	
Met Thr Glu Asp Asn Ile Glu Val Gly Ile Cys Asn Glu Ala Gly Phe						
	210		215		220	
Arg Arg Leu Thr Pro Thr Glu Val Lys Asp Tyr Leu Ala Ala Ile Ala						
225		230		235		240

<210> 545

<211> 181

<212> PRT

<213> Homo sapiens

<400> 545

Arg Cys Ile Leu Tyr Thr Gly Phe Met Leu Gly Ala Gln Arg Glu Val						
1		5		10		15
Asp Ser Arg Leu Leu Ala Leu Pro Gly Arg Lys Val Pro Thr Ser Trp						
	20		25		30	
Trp Asp Asp Leu Phe Lys Gly Ala Lys Glu His Gly Ala Val Ala Val						
	35		40		45	

499

Glu Arg Val Thr Lys Ser Pro Gly Glu Thr Ser Lys Pro Arg Pro Phe
 50 55 60

Ala Gly Gly Gly Tyr Arg Leu Gly Ala Ala Pro Glu Glu Glu Ser Ala
 65 70 75 80

Tyr Val Ala Gly Glu Lys Arg Gln His Ser Ser Gln Asp Val His Val
 85 90 95

Val Leu Lys Leu Trp Lys Ser Gly Phe Ser Leu Asp Asn Gly Glu Leu
 100 105 110

Arg Ser Tyr Gln Asp Pro Ser Asn Ala Gln Phe Leu Glu Ser Ile Arg
 115 120 125

Arg Gly Glu Val Pro Ala Glu Leu Arg Arg Leu Ala His Gly Gly Gln
 130 135 140

Val Asn Leu Asp Met Glu Asp His Arg Asp Glu Asp Phe Val Lys Pro
 145 150 155 160

Lys Gly Ala Phe Lys Ala Phe Thr Gly Glu Gly Gln Lys Leu Gly Ser
 165 170 175

Thr Ala Pro Arg Cys
 180

<210> 546

<211> 197

<212> PRT

<213> Homo sapiens

<400> 546

Pro Arg Val Arg Arg Arg Ala Arg Ala Ala Ala Gly Ser Ser His Ala
 1 5 10 15

Ala Met Ala Asp Ser Glu Leu Gln Leu Val Glu Gln Arg Ile Arg Ser
 20 25 30

Phe Pro Asp Phe Pro Thr Pro Gly Val Val Phe Arg Asp Ile Ser Pro
 35 40 45

Val Leu Lys Asp Pro Ala Ser Phe Arg Ala Ala Ile Gly Leu Leu Ala
 50 55 60

Arg His Leu Lys Ala Thr His Gly Gly Arg Ile Asp Tyr Ile Ala Gly
 65 70 75 80

500

Leu Asp Ser Arg Gly Phe Leu Phe Gly Pro Ser Leu Ala Gln Glu Leu
 85 90 95
 Gly Leu Gly Cys Val Leu Ile Arg Lys Arg Gly Lys Leu Pro Gly Pro
 100 105 110
 Thr Leu Trp Ala Ser Tyr Ser Leu Glu Tyr Gly Lys Ala Glu Leu Glu
 115 120 125
 Ile Gln Lys Asp Ala Leu Glu Pro Gly Gln Arg Val Val Val Val Asp
 130 135 140
 Asp Leu Leu Ala Thr Gly Gly Thr Met Asn Ala Ala Cys Glu Leu Leu
 145 150 155 160
 Gly Arg Leu Gln Ala Glu Val Leu Glu Cys Val Ser Leu Val Glu Leu
 165 170 175
 Thr Ser Leu Lys Gly Arg Glu Lys Leu Ala Pro Val Pro Phe Phe Ser
 180 185 190
 Leu Leu Gln Tyr Glu
 195

<210> 547

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 547

Glu Thr Gly Lys Glu Ser Lys Ala Leu Phe Leu Pro Phe Pro Gly Ser
 1 5 10 15
 Val Tyr Ser Thr Ser Thr Gly Glu Ala Ser Gly Glu Gly Leu Ser Pro
 20 25 30
 Leu Pro His Leu His Glu Phe Trp Asn Ser Val Leu Leu Ala Ala Cys
 35 40 45
 Phe Gln Leu Pro Pro Ile Ser Ile Ala Ala Gly Ser Ser Cys Leu Phe
 50 55 60
 Tyr Ser Val Ile Lys His Pro Ala Pro Thr Leu Ser Gln Arg Ser Ile
 65 70 75 80